#### DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

## ELEVENTH

## ANNUAL GENERAL REPORT

OF THE DEPARTMENT,

1910-11.

presented to both Bouses of parliament by Command of Bis Majesty.



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DUBLIN CASTLE.

27th February, 1912.

SIR,

I have to acknowledge the receipt of your letter of the 24th instant, forwarding, for submission to His Excellency the Lord Lieutenant, the Eleventh Annual General Report of the Department of Agriculture and Technical Instruction for the Year 1910-11.

I am,

Sir,

Your obedient Servant,

J. B. DOUGHERTY.

THE SECRETARY,

Department of Agriculture and Technical Instruction, Dublin,

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#### ELEVENTH

## ANNUAL GENERAL REPORT

OF THE

Department of Agriculture and Technical Instruction for Ireland

### TO HIS EXCELLENCY

JOHN CAMPBELL, EARL OF ABERDEEN,

&C., &C., &C.,
LORD LIEUTENANT-GENERAL AND GENERAL GOVERNOR

OF IRELAND.

## MAY IT PLEASE YOUR EXCELLENCY, I have the honour, on behalf of the Department of Agri-

culture and Technical Instruction for Ireland, to submit their Eleventh Annual General Report.

The Annual Report of the Department includes operations when the department includes of the control of the Department includes operations are the Department includes of the Control of the Department includes operations are the Department includes of the Control of the Department includes operations are the Department in Departme

up to the close of the agricultural year, as it has been found more convenient to adopt this arrangement than to limit the Report to the period of the financial year.

The Report has been divided as follows:-

#### Part I.—Administration and Funds.

- Council of Agriculture and Boards.
  - 2. Funds of the Department.
  - 3. Administration of the Endowment Fund.
    4. Central Institutions.
  - 5. Miscellaneous.
- Part II.—Details of the Department's Operations.
  - 1. Agriculture.
  - 3. Fisheries.
  - 4. Statistics and Intelligence.
  - 5. Veterinary.

### PART I.—ADMINISTRATION AND FUNDS.

#### I .- COUNCIL OF AGRICULTURE AND BOARDS.

In the year 1911 there were two meetings of the Council of Agriculture—one on the 30th May and the COUNCIL OF AGRICULTURE of the Council of the Society, Leinster House, Dublin, by kind permission of the Council of the Society.

At the meeting in May, the more important subjects discussed were the following:—The National Insurance Bill in so far as it affected agricultural interests; the question of milk production; the importance of the poultry industry, especially for the occupiers of new holdings created under the Land Acts; the working of the Weeds and Agricultural Seeds (Ireland) Act, 1909; the other control of the Weeds and Agricultural Seeds (Ireland) Act, 1909; the interest own is the occuragement of face proving in the state of the sta

At the November meeting the Department submitted for consideration an application made by the Irish Agricultural Organisation Society for a grant from the Development Fund for purposes of agricultural organisation. The application had been made to the Treasury for submission to the Development Commissioners appointed under the Development and Road Improvement Funds Act, 1909. The Treasury, in accordance with the statutory requirement, had forwarded the application to the Department for their report. In the course of the discussion at the meeting of the Council a resolution was proposed by the Reverend T. A. Finlay, M.A., and seconded by Mr. H. A. M. Barbour, M.A., to the effect that such funds as might be allocated by the Development Commissioners in aid of cooperative organisation of agriculture in Ireland should be applied through the Irish Agricultural Organisation Society, subject to such conditions as the Commissioners might deem necessary to ensure that the funds so granted should be applied to the organisation of agricultural industry only. An amendment was proposed by Mr. P. A. Meehan, M.P., and seconded by Mr. T. P. M'Kenna, recommending that any money available for agricultural co-operation should be given to the Department and administered by them. After a full debate a division was taken, and the amendment was adopted by 47 votes to 33.

A summary of the proceedings of each meeting of the Council

together with the Vice-President's Address, was published in the

Department's Journal.\*

The Council of Agriculture consists of 104 members, of whom 6s are appointed by the County Councils and 34 are nominated by the Department, the President and Vice-President of the Department being ex-officio members. Under Section 27 of the Agriculture and Technical Instruction (Ireland) Act, 1899, the Hardward Council Council Council Council Council Council Council Council expire on 31st. March, 1912. The new Council will be constituted as soon as practicable after that date.

THE AGRICULTURAL The Agricultural Board in the year 1910-11 goard. consisted of the following members:—

Name and Address	By whom appointed
Daly, Very Rev. Canon, D.D., P.P., Lavagh, Co. Sligo,	Committee.
Downes, Robert, J.P., Russelstown, Mullingar,	Leinster Provincial Com- mittee.
Everard, Colonel Sir Nugent T., Bart., H.M.L., Randlestown, Navan, Co. Meath,	The Department.
Gore-Booth, Sir Josslyn, Bart., D.L., Lissadell, Sligo.	The Department.
Healy, His Grace the Most Rev. John, D.D., Lord Archbishop of Tuam, St. Jarlath's, Tuam, Co. Galway,	Connacht Provincial Com- mittee.
Kelly, Most Rev. Denis, D.D., Lord Bishop of Ross, Bishop's House, Skibbereen, Co. Cork.	Munster Provincial Com- mittee.
M'Cance, John S. F., J.P., Woodbourne, Dunmurry, Co. Antrim.	Ulster Provincial Com- mittee.
M'Donald, William, J.P., Laharan, Minane Bridge, Carrigaline, Co., Cork,	
Monteagle, The Right Hon. Lord, K.P., D.L., Mount Trenchard, Foynes, Co. Limerick,	The Department.
Montgomery, H. de F., D.L., Blessingbourne, Fivemiletown, Co. Tyrone,	Ulster Provincial Com-
Murnaghan, George, J.P., Lisanelly House, Omagh, Co. Tyrone,	
O'Neill, Patrick J., J.P., Kinsealy House, Malahide, Co. Dublin,	Leinster Provincial Com- mittee.

The Agricultural Board meet at the Offices of the Department, Upper Merrion Street, Dublin. The funds controlled by the Agricultural Board are set forth on page 8. The schemes and operations of the Department that are explained in detail in the section of this report which deals with Agriculture have all been undertaken with the advice and concurrence of the Board.

THE BOARD OF TECHNICAL INSTRUCTION. The Board of Technical Instruction in the year 1910-11 consisted of the following members:—

Name and Address	By whom appointed
Barbour, Frank, Annebrook, Mullingar, Co.	
Westmeath, Clancy, Most Rev. John, D.D., Lord Bishop of Elphin, St. Mary's, Sligo,	mittée. Connacht Provincial Com- mittee.
Orozier, James, J.P., V.S., 26 Montpelier Hill, Dublin.	Dublin County Borough
Dickson, Alexander, 15 Parliament Street, Dublin.	
Donnellan, Thomas, Thomond Gate, Limerick,	Limerick County Borough Council.
Dunn, Christopher J., J.P., 1 Mount Verdon Terrace, Wellington Road, Cork.	The Department.
Evans, Rev. Henry, D.D., M.R.I.A., F.I.H., St. Helen's, Blackrock, Co. Dublin,	Commissioners of National Education.
Finlay, Rev. T. A., M.A., 35 Lower Lesson Street, Dublin,	mittee.
Glynn, Joseph A., B.A., Beech House, Tuam, Co. Galway,	The Department.
Good, John, The Moorings, Merrion Road, Dublin,	Joint Committee of Coun- cils of the Co. Dublin Urban Districts.
Henderson, Sir James, A.M., D.L., Onkley House, Windsor Park, Belfast.	The Department,
Johnston, Sir John Barr, J.P., Londonderry,	Londonderry County Borough Council.
Macartney, William, J.P., 33 Cliftonville Road, Belfast,	Belfast County Borough Council.
M'Clelland, John A., M.A., D.Sc., F.R.S., Rostrevor, Orwell Road, Rathgar, Co. Dublin.	The Department.
Mercier, Alderman Samuel T., J.P., 2 Mount Clifton, Cliftonville Road, Belfast.	Belfast County Borough Council.
OCeallaigh, Seaghan T., 8 Belvedere Avenue, Dublin,	Dublin County Borough Council.
Power, Thomas, Dungarvan, Co. Waterford,	Munster Provincial Com- mittee.
Sheehan, Most Rev. Richard A., D.D., Lord Bishop of Waterford and Lismore, Bishop's House, John's Hill, Waterford,	Waterford County Borough Council,
Sisk, Richard, Evergreen Villas, Cork, .	Cork County Borough Council.
Starkie, William J. M., M.A., Litt.D., Tyrone House, Marlborough Street, Dublin, Paylor, Alexander, 131, Donegall Street,	Intermediate Education Board. Belfast County Borough
Belfast,	Council.

The funds administered with the concurrence of the Board of Technical Instruction are dealt with on page 9.

The Consultative Committee for co-ordinating educational administration, as constituted by Section 23

THE CONSULTATIVE of the Act of 1899, consists of the ViceCOMMITTEE President of the Department as Chairman, of EDUCATION. and one person appointed by each of the

following bodies:—The Commissioners of National Education, the Intermediate Education Board; the Agricultural Board, and the Board of Technical Instruction.

The Committee in 1910-11 consisted of the following members:—  $^{\dagger}$ 

Name and Address	By whom appointed
The Right Hon. T.W. Russell, P.C., M.P., Vice- President of the Department, Department of Agriculture and Technical Instruction, Dublin.	Ex-officio.
William J. M. Starkie, M.A., Litt.D., Tyrone House, Marlborough Street, Dublin, Rev. T. A. Finlay, M.A., 35 Lower Leeson Street, Dublin.	Board
John A. M'Clelland, M.A., D.Sc., F.R.S., Rostrevor, Orwell Road, Rathgar, Co- Dublin, F. P. Gill, Department of Agriculture and Technical Instruction, Dublin.	Board of Technical In- struction.

## PUNDS OF THE DEPARTMENT.

## (a.) Parliamentary Vote.

In the Parliamentary Vote for the Department for 1910-11 provision was made for the salaries and other expenses in connection with the institutions and officers transferred from other Departments under Section 2 of the Agriculture and Technical Instruction (Ireland) Act of 1899, as well as for the salaries and expenses of officers appointed since 1st April, 1900. The Vote also contained the following Grants-in-Aid :—Cattle Pleuro-Pneumonia Account, including the grant for swine fever and rabies work, £10,200; Congested Districts Board, £169,750; provision for agricultural purposes under Section 15 of the Act of 1899 and Section 49 of the Irish Land Act, 1909, £37,000 (this sum forms part of the Endowment Fund); provision for the purchase of specimens for the National Museum of Science and Art. £2,300 : books for the National Library of Ireland, £1,300; and apparatus and equipment for the Royal College of Science, £10,600. Provision was also made for tobacco growing experiments, £6,000;

for forestry operations, £6,000; and for the improvement of horse-breeding a special grant from the Development Fund

of £4.600.

The Parliamentary Yote also contained the grants for Science and Art Instruction in Treland, payable to schools which adopt the Department's programme for Experimental Science, Drawing, Manual Instruction, and Domestic Economy. The provision made for these purposes was £53,250, an increase of £4,500 on the corresponding provision for the previous year.

The expenditure in respect of the institutions maintained from the Parliamentary Vote during the year 1910-11 was as follows:—

Royal College of Science,			£16,583
National Museum of Science	Art,		13,498
National Library of Ireland,			5,640
Metropolitan School of Art,			4,621
Royal Botanie Gardens.			4,844
			645.186

The Geological Survey of Ireland was transferred in April, 1905, from the Board of Education, England, to the Department. The expenditure on the survey in 1910-11 was £2,306.

#### (b.) Endowment Fund.

During the year ended 31st March, 1911, the whole of the Department's Annual Endowment Fund provided under the Agriculture and Technical Instruction (Ireland) Act. 1899, viz., £166,000, was duly received, together with a further annual sum of £5.000 under the terms of the Agriculture and Technical Instruction (Ireland) Act, No. 2, 1902. The latter sum was formerly payable to the Royal Dublin Society, under the Probate Duties (Scotland and Ireland) Act, 1888, for the improvement of the breeds of horses and cattle. There was also received a contribution of £7,000 from the Ireland Development Grant, earmarked for the purposes of Technical Instruction, and £19,000 under Section 49 of the Irish Land Act, 1909, in respect of the agricultural work of the Department in the Congested Districts. The amount received as interest arising out of securities held by the Department, and from moneys on deposit in the Bank of Ireland, was £8,572, and the interest received from loans for bulls, stallions, agricultural banks, etc., was £708.

#### (c.) The General Cattle Diseases Fund.

The General Cattle Diseases Fund was formed under the Contagious Diseases (Animals) Act of 1878 by assessment on the several Poor Law Unions in Ireland, mainly for the purpose of recouping to local authorities one-half of the expenditure in-

curred by them under the Diseases of Animals Acts, and by that means lessening the burden which might otherwise press unduly on particular localities, owing to the prevalence therein of contagious diseases of animals. It is also drawn upon to supplement the annual Grant-in-Aid of the Cattle Pleuro-Pneumonia Account in any year in which that grant proves insufficient to meet the expenditure of the central authority in dealing with pleuro-pneumonia, foot and mouth disease, rabies, and swine fever.

The Fund is replenished by assessments on the several counties and county boroughs in proportion to the net annual value of property therein. The total amount which may be levied on the several contributing bodies for the purposes of the Fund is limited by the Diseases of Animals Act of 1894 to a sum which. taken with any money carried to the Cattle Plague Account before the 30th September, 1878, is equivalent to a poundage of 8d, in the pound; and no larger sum may be levied at any one time than the equivalent of 1d. in the pound. Since the inception of the Fund a sum equivalent to a poundage rate of 63d. in the pound has been levied in twenty-six assessments, the last of which was dated the sixth of December, 1910. An assessment at the rate of 1d. in the pound now yields approximately £16,350, and this sum would cover the normal expenditure, exclusive of expenditure on swine fever work in excess of the Parliamentary Grant, for a period of about eighteen months.

A proportion of the fines recovered in prosecutions for offences under the Diseases of Animals Acts is also carried to the credit of the General Cattle Diseases Fund, and the amount thus realised covers certain miscellaneous expenses of the central authority. such as the expenses incurred in the examination of carcases washed ashore, etc., with which the Fund is also chargeable under Section 72 (4) of the Diseases of Animals Act of 1894.

#### 3 .- ADMINISTRATION OF THE ENDOWMENT FUND.

The Department's Endowment Fund at present consists of an annual income of £166,000 under the Agri-THE ENDOWMENT culture and Technical Instruction (Ireland)

Act of 1899, £5,000 under the Agriculture RUND. and Technical Instruction (Ireland) Act.

No. 2, of 1992, £19,000 under Section 49 of the Irish Land Act of 1909, and £7,000 from the Ireland Development Grant. From the total, amounting to £197,000, a sum of £62,000 has to be set aside for the purposes of technical instruction, and £10,000 for sea fisheries. A provision of about £1,000 a year has also to be made for the payment of the superannuation allowances of certain persons formerly employed under the Commissioners of National Education, and for the travelling expenses of members of the Council of Agriculture, and of the two Boards established by the Act of 1899.

When the sums mentioned have been set aside for these purposes,
the balance, amounting to £124,000, constitutes the annual sum applicable for "the

TUTES FOR trutes the annual sum applicable for "the AGRICULTURAL purposes of agriculture and other rural industries, and sea fisheries." In addition to this annual income, certain capital sums, amounting in all to £204,906, were placed at the disposal of the Department under Section 15 (e) and (e) of the Act of these

the Department under Section 15 (c) and (g) of the Act of 1899, These sums and the unexpended balances of the annual income of the Endowment Fund during the initial years of the Department's existence were invested in Governsecurities. The nominal or face value

securities into. ment securities. The nominal or face value including \$20,000 off the securities held on \$15 March, 1911, including \$20,000 off the securities held on \$15 March, 1911, including \$20,000 for the begardened from the Board of Works to the Department in Asia transferred from the Board of Works to the Department in Asia for the Board of \$25,000 for the Board of \$25,000 for the Board of \$25,000 for the Parameter and, and there was a balance of \$25,000 for the Parameter General's Supply Account to credit of the Fund. The total saxets of the Fund on \$215 March, 1911, amounted to \$220,904.

of technical instruction, £14,712; for sca fisheries, £12,024; for the Sea and Coast Fisheries Loan Fund, £7,886; Steam Cruiser and Dredger Replacement Funds, £9,98; and for the buildings and equipment of the Munster Institute an unexpended balance £1,257 out of £10,000 provided under the Act of 1890. The total amount of these liabilities was, therefore, £98,902 on 31st March, 1913.

Deducting the liabilities from the assets, there remained a sum of £194,902 swalable for the purposes of agriculture and other rural industries and sea and inland fisheries. The latter sum has been allocated, with the concurrence of the Agricultural Board, for various undertakings, such as the purchase of additional and in connection with the Agricultural Colleges and State and the connection with the Agricultural Colleges and or agricultural schools, loans to the building and equipment of agricultural schools, loans the think of the purchase of frencing materials, and the purchase of frencing materials, the purchase of frencing materials and the purchase of the frencing materials and the purchase of the frencing materials.

marine works, and the protection and development of sea and inland fisheries.

The net expenditure on the agricultural side of the Department's work in 1910-11, including grants of £10,500 for the purpose of providing instruction in manual work and domestic economy in rural districts, and £1,000 for part insurance of motor fishing boats, was £139,000. The details of the expenditure are shown in the Appendices, pages 194-5.

Under Section 16 (1) (c) of the Agriculture and Technical Instruction (Ireland) Act of 1899, the annual FUNDS FOR sum of £55,000, car-marked for the purposes

TECHNICAL of technical instruction, is to be divided instruction. into two parts, one part of which is distributable, in proportion to their respective completions among the county bounds in aid of amorpoved.

populations, among the county boroughs in aid of approved schemes of technical instruction, and the other part is applicable to athems of technical instruction, and the other part is applicable to athems of technical instruction, are more present in a spirit of the contract of the property of the part of the purposes of technical instruction.

The sum of £55,000 was allocated by the Department, with the concurrence of the Board of Technical Instruction, for the triennial period ending 31st March, 1912, as follows:—

For Technical Instruction in County Boroughs
£26,000.

For Technical Instruction elsewhere than in

County Boroughs, and for central purposes £29,000.

The Board, therefore, control the expenditure of an annual sum of £29,000, which is applicable for technical instruction elsewhere than in County Boroughs, and for certain central purposes. The balance of the £50,000, via, £26,000, allocated, with the concurrence of the Board, for technical instruction in the six county brooughs, is applied in aid of schemes in these boroughs subject to the approval of the Department alone. Out of the sum of £20,000 referred to, the Department, with the concurrence of the Board, set aside an annual sum of £4,000 for central purposes, £4, for Senior Scholarship schemes, provision for training teachers, etc. The remaining hardward of the sum of £4,000 for central purposes, £4, for Senior Scholarship schemes, provision for training teachers, etc. The remaining hardward in urban and county districts. Details of these schemes will be found in Part II. of the present Report, under the head of "Technical Instruction."

The Agricultural Board allocate each year a sum of \$10,000 out of the funds administered with the concurrence of that Board, for Manual Instruction and Domestic Economy Classes in rural districts. Such classes are regarded as part of the general scheme of agricultural education, but, for administrative reasons, the Department have hitherto found it convenient to administrative most of the sum of the sum

The grant in aid of technical instruction for 1910-11, commonly known as the "Equivalent Grant," was duly received from the Ireland Development Grant, and amounted to £7,000.

The total of the sums available from the Endowment Fund in 1910-11 for technical instruction in non-agricultural subjects was £73,291,\* exclusive of the balance of £54,964 brought forward from the year 1909-10. The expenditure was £61,100, of which £15,948 was paid to the county boroughs. The amount of the balance carried forward to the year 1911-12 was £67,065, and comprised £42,958, accrued in respect of technical instruction schemes in county boroughs, and £24,549 ear-marked, as stated above, for schemes in urban districts and the extension of special schemes, such as the establishment of trade preparatory schools, special courses of instruction for masters and foremen in trades, and summer courses for teachers of elementary science, drawing, manual instruction, and domestic economy.

Under Section 16 (d) of the Act a provision of £10,000 is to be made each year for the purposes of sea FUNDS FOR fisheries. This sum was supplemented in FISHERY PURPOSES. 1910-11 by a grant of £1,000 from the funds controlled by the Agricultural Board for the part insurance of motor fishing boats purchased on loan from the

Sea and Coast Fisheries Loan Fund.

The total sum available for these purposes in 1910-11, including the balance carried forward from 1909-10 and sundry receipts, was £25,994. The gross expenditure was £13,970, of which £3.062 was spent on marine works and dredging carried out at Arklow, Ballaghaline, Courtown, Fenit, and Kilmore. Further information regarding these and other marine works, the patrol of the fishing grounds, and the investigations carried on at the marine laboratory and oyster beds at Ardfry, the cost of which is defrayed from this fund, is given in the Department's Annual Report on the Sea and Inland Fisheries of Ireland.

The portion of the Sea and Coast Fisheries Fund reserved by the Purchase of Land (Ireland) Act, 1891,

SEA AND COAST for expenditure elsewhere than in con-FISHERIES FUND. gested districts counties, which remained vested in the Commissioners of Public Works, was transferred to the Department under an Order in

Council dated 24th March, 1904, in accordance with the terms of Section 15 (c) of the Agriculture and Technical Instruction (Ireland) Act. 1899.

The Sea and Coast Fisheries Fund was the residue of a sum collected by public subscription for the relief of distress in Ireland in the year 1822. This sum was vested in trustees known as the "Trustees to Aid Sea and Coast Fisheries of Ireland." By the Act 47 and 48 Vic., c. 21, the fund was transferred to the Commissioners of Public Works, who were authorised to make fishery loans therefrom to such persons, and upon such security,

<sup>\*</sup> This amount does not include the provision of £53,250 made in the Parliamentary Vote, as stated on page 6, for grants to schools and classes of science and art and technical instruction. The distribution of these grants is shown on pages 350-383.

as the Inspectors of Irish Fisheries should recommend. By the Purchase of Land (Ireland) Act. 1891 (54 and 55 Vic., c. 48). the fund was transferred to the Congested Districts Board, save £20,000, which was reserved for the purpose of loans in noncongested districts under the same terms as obtained before the passing of that Act.

By the Agriculture and Technical Instruction (Ireland) Act. 1899, this sum of £20,000-or what it was then represented by in cash, investments and outstanding loans—was placed at the disposal of the Department. It was not, however, actually transferred until 1st April, 1904, when the Department received from the Commissioners of Public Works £1,521 19s. 6d. in cash, £20,000 in Consols, and promissory notes to the amount of £7,700,

inclusive of arrears and irrecoverable balances.

During the year ended 31st March, 1911, one hundred and sixteen applications for new loans were favourably considered by the Department, and a sum of £10,323 was issued for the purchase and repair of fishing boats and gear. The manner in which these loans are repaid continues to be satisfactory. The details of the transactions are published in the Department's Annual Report on the Sea and Inland Fisheries of Ireland.

#### 4 .- CENTRAL INSTITUTIONS.

The forty-third Annual Report of the Dean and Council of the Royal College of Science will be found in the BOYAL COLLEGE OF Appendices, page 414. The Session 1910-11 SCIENCE was the last Session in which the work of the College was conducted in the build-FOR IRELAND.

ing in Stephen's Green.

The number of students attending the College during the Session was 121, of whom 96 were Associate Students and 20 were non-Associate Students. These included 4 Royal Scholars, 15 Science Scholars, 83 Agricultural Scholars (including 1 in Horticulture and 2 in Forestry) and 13 Teachers-in-training. In addition there were 2 Local Exhibitioners, 1 Special Research Student and 3 Post-Graduate Students, to whom Research Studentships had been awarded. At the end of the Session 25 students were awarded the Associate Diploma of the College-9 in the Faculty of Agriculture, 3 in the Faculty of Engineering, 5 in the Faculty of Applied Chemistry, and 8 in courses for Teachers-in-training, viz.: -5 in Chemistry Section, 1 in Physics Section and 2 in the Natural Science Section.

The College has again been utilised as the chief centre for the short Summer Courses of instruction which the Department organise each year mainly for the further training of teachers working under their Programme of Experimental Science, Drawing and Manual Instruction for Day Secondary Schools. In 1911, these Summer Courses were held at 20 centres, with an attendance of 548. Of this number, 220 attended at the Royal College of Science. Of these 40 attended the new course in Physical Goography instituted in connection with the revised programme in Geography under the Intermediate Education Herberton, of Oxford, and Professor Cole, of the Royal College of Science. The other courses were, as in former years, given by members of the staff in association with extern teachers.

The increase in the number of research students attending the College was mainly due to the scheme of studentships for the encouragement of research instituted by the Department which came into operation in the beginning of the session. These studentships carry with them the privilege of the free use of the laboratories and facilities of the College and are limited in number to one-tenth of the number of Associate students attending the College. They are open to all students

who have completed their Associateship course.

The Department regret to record the retirement, on the 81st August, 1911, under the Civil Service regulation as to age, of Professor Sir Walter Noel Hartley, F.R.S., Dean of the Faculty, who held the Chair of Chemistry in the Royal College of Science since 1876. The honour of knighthood was of the new College of Science by His Majesty the King. The vacaney cusued by Sir Walter Hardley's retirement has been filled by the appointment of Mr. Gilbert T. Morgan, D.S. p. F.LC., Assistant Professor of Chemistry in the Imperial College of Science and Technology, London, and Honoury Scienterly to the Chemical Society,

The new buildings of the Royal College of Science, of which the foundation stone was laid by His late Majesty King Edward VII. on 28th April, 1904, were opened by His Majesty King George V. on the 8th July. 1911. The buildings were crected under the

direction of the Commissioners of Public Works.

The removal of the apparatus and general equipment of the College to the new building in Merrion Street was carried out during the months of August and September, under the superintendence of The The Theorem and Theorem and the September and September an

"The new College of Science is situated in Upper Merrica Street, where it forms part of a scheme which will make a notable addition to the public boldings of Dolbin. In compile the western and part of the northern saids of a quadrangle of which the venustring sides will be enclosed as on the contract of the contract

treatment of the various fasçdes is to continue the tradition of the public buildings for which Dublin is famous, such as the Custom House, the Old Parliament House, Trinity College, the Four Courts, King's Inns, and others. These, erected mostly in the eighteenth century—Duhlin's best period, when the tradition to which architecture seems again tending to return, was yet unbroken—are notable examples of the classic renaissance treated with certain features of local rather than Italian style. Such is the idea that the eminent designer-Sir Aston Webb-set before him in planning the Royal College of Science, and all who have seen the new building are struck with the dignity and beauty with which he has given effect to his aim-

"The main building of the College is about 360 feet in length and each of the projecting wings measures 160 feet long. The huildings are bounded on the south by Merrion Place, while on the north side a new road is to be constructed between the College of Science and the Natural History Museum. Two ornemental arches through the north and south wings of

the College will form side entrances to the quadrangle.

"Over the principal entrance, which is situated in the centre of the main building, a triangular pediment is supported by a portice with Ionic columns. In the middle of the pediment is a beautifully carved figure of a man in meditative attitude, representing the allegorical figure of Study. The figure is the work of Mr. Oliver Sheppard, R.H.A. The portice is surmounted by a dome rising to a height of 116 feet and crowned by a lantern composed of a colonnade of miniature Ionic pillars. Under the dome is a large clock, the four faces of which can be seen from distant parts of the city. The walls are built of chiselled granite from the Ballyknocken Quarries, County Dublin, ornamented with dressings around the windows, doorways, and cornices, of carved Portland stone. An open balustrade of Portland stone forms a parapet around the whole roof.

The north and south entrances are ornamented with pediments similar to the portice of the main entrance. Over the arches are carved the royal

arms and monograms of the late King and King George. "The main portice is approached by a shallow flight of steps and leads into a handsome arched vestibule. Two spacious staircases made of stone lead to the first floor. There are four storeys, on which are disposed numerous laboratories and lecture rooms connected by broad corridors running right through from end to end. Immediately behind the entrance hall is a large lecture theatre, 70 feet in length by 35 in breadth, while to the south side a chemical laboratory extends through two storeys of the building in height. Underneath the dome are situated the students' common-room and smoking-room. As well as being reached by the main staircase the corridors are connected with staircases at the ends of both wings. All the corridors are paved with marble squares. Although many of the rooms are fitted with fireplaces the heating will be done chiefly by means of hot water pipes, which are laid on to every room and corridor in the building.

"The fitting-up of the various laboratories is of an elaborate character, and includes all the most up-to-date apparatus for scientific, experiments. Electricity will be chiefly used for light and power. The various rooms will always be kept well ventilated by means of a carefully devised system

of fans. "At the zero of the new College an additional block of buildings has been

erected as a Mechanical Engineering Laboratory. "The Architects are Sir Aston Wehb, R.A., of London, who was the

architect of the Royal College of Science, London, and the Queen Victoria Memorial, and Sir Thomas Manly Deane of Dublin, who, in partnership with his father, the late Sir Thomas Deane, was the architect of the Science and Art Museum and National Library. The building and equipment work was carried out by Messrs. M'Laughlin & Harvey, of Dublin and Bel'ast."

The question of co-ordinating the technological work of the Royal College of Science with that of the National University, to which reference was made in the last Report, is still under consideration, and the Senate of the University have appointed a Committee in connection with the matter. A scheme of coordination between the Queen's University of Belfast and the Royal College of Science has already been arranged.

The course for the Associateship of the Royal College of Science has, up to the present, been of three years' duration. The Department have always felt the necessity for a fuller and broader curriculum than could be comprised within three years; but owing to the urgency of providing a supply of trained teachers for their work throughout the country, they were hitherto unable to take any steps to extend the course. Now that the more urgent needs of their schemes have been met, and as the pressure has accordingly become less, they propose that in future the course for Associatesbip shall extend over a period of four years. A detailed time table to suit such an extension is being prepared. During the current Session the First and Second Year students in the Faculty of Agriculture have elected to take the Four Years' course. In arranging it the Department have followed along the main lines of the four years' course which was submitted by them to the Dublin and Belfast University Commissions in response to their invitation as to the views of the Department on the question of co-ordination of the Royal College of Science for Ireland in its technological work with the new Universities.

The powers subsequently conferred on the Queen's University enabling the Senate to draw up regulations for co-ordination with other institutions have been utilised in drawing up a course of study for students in Agriculture. The regulations of the University provide that a student of the University who wishes to obtain a degree in Agriculture may complete a two years' course of University study in General Science and Literature at the Queen's University, Belfast, and a further two years' course in technical subjects in the Royal College of

Science, Dublin.

The new curriculum will permit of similar arrangements being made with any of the Universities in Ireland, as the initial two years of the curriculum is similar in character to the general scientific course pursued during the first two years of University study, while the third and fourth years are devoted more especially to the technical aspects of the Sciences.

The Irish Antiquities Collection has been increased by the addition of 199 new objects, 197 of which were deposited by the Royal Irisb Academy, One object was obtained by purchase, SCIENCE AND ART, and one by gift. Among the most important objects added were the fine gold lunula discovered at Lisanover, Co. Cavan, an interesting example of an early stone lamp, and a fine bronze blade and ferrule found in Lough Ruddh bog near Tullamore. The arrangement of the west crypt has been proceeded with, and at the conclision of the year it was in a forward condition, and will probably be opened to the public in the course of the summer. The fitting-up of the south-west crypt has also been taken in hand to accommodate the valuable collection of the Royal Society of Antiquaries, which has been placed on loan in the Museum.

The Keeper of the Irish Antiquities Section, Mr. George Coffey, whose Guide to the Celtic Antiquities of the Christian Period preserved in the National Museum was issued in 1909, published this year a Monagmaph on New Grange (Brugh na Boinne) and Other Incised Tunushi in Ireland. Both wyks have

won wide approval.

won wise approva-In the Art modastrial Division a very fine collection of In the Art mass been placed on loan by Mr. Frark Falkner, and the silver collection has been enriched by the purchase of two very early spoons, an Irish chalice, dated 1688, and other pieces of early Irish make. About 15 valuable pieces of old lace have also been added to the collection.

The Ethnographical Collection has been increased by a valuable collection presented by Dr. Charles E. Gardner, and by an interesting collection of Mexican antiquities lent by W. J.

Campbell, Esq.

Camponen, Essay, Tour State Chapters of the General Guide have been published during the year, and a Catalogue of the Falkner Collection. These illustrated Guides are appreciated by the public, and are calculated to increase the interest and usefulness of the collections.

In the Circulation Division 8 new cases and frames of objects were prepared. There are now 326 cases and frames available

for issue to schools. There were 472 issues during the year.

for issue to schools. There were \$72\$ issues during the year.

In the Natural History Division, Zoological Section, it is rearrangement of the Lower Room has been continued. Section, it is the post that it will be finished during the section of the post that the post of the post of

out specimens collected at their islands.

In the Botanical Section the President and the collection of Fossil Plants in the President Plants and the Collection of Fossil Plants in the President Plants and the Section of Fossil Plants in the Resident Plants and the Section of the Section of the Section of the Section of the Collection the Space available is now found to the Section of the Collection of the Space available is now found to the Section of the Collection of the Space available is now found the Section of the Collection of the Space available is now found the Section of the Collection of the Space available is now found the Section of the Section

limited for their proper display.

Owing to the re-arrangement of the Zoological and Fossil Collections, more room has been made available for the general collection of Minerals, which is now displayed to great advantage. Special small collections have also been set apart for the use of students in the Natural History Students' Room, as

referred to above.

The Department regret the retirement on 80th September, 1911, from the service of the Museum of Mr. H. Bantry White, 18.Co, M.A., M.K., under the Civil Service regulation as age. Mr. White served for the long period of forty-seven years, having been first appointed as Treasurer's Clerk in 1864. Since 1883 Mr. White was Chief Clerk and Second Officer of the Museum and other Science and Art Institutions.

The attendance of readers at the National Library of Ireland during the year has been 208,501, being an NATIONAL LIBRARY increase of 19,285 over that of last year.

OF IRELAND. The working year 1910-11 was, however,

The number of volumes added to the Library and made accessible to readers during the year was 5,142. The Author and Title Catalogue for the year 100s has been printed off and issued during the year, and that for 100 is being prepared. The printing of the Decennial Subject Instead prepared. The printing of the Decennial Subject Indicate, 1004-1910, is in progress. Many important donations have been received, notably that from Lord Cruvford — Bibliothece Lindesian—a privately printed Catalogue of the Library at Haigh Hall, and also the Catalogue of Tudor and Stant Proclamations.

The prolonged drought during the summer months of the year
1911 caused some anxiety to those in charge
ROYAL BOTANIC
GARDENS.
There was no rain for a period of thirty
days ending 16th June. This was followed

by a further very dry period to 29th July, and again in September the rainfull was abnormally small. The water supply pumped from the river Tolka by the hydraulic rant fortunately did not fail, and proved of the greatest value. Eight men were employed watering out of doors daily from 4 p.m. to closing time, and only a few trees and shrubs died. It is satisfactory to report that the plants did not suffer much, and the year was, generally speaking, a good one for plant life.

Several important operations were carried out in the gardens during the year, and considerable improvements were made in the grounds and walks. Owing to the shallow nature of the soil several groups of plants in the systematic classes were not doing well. The plants in ten of these beds were all littled, the subsoil removed for several indees, and good stip put in to replace it. The plants have already benefited by this change. All the stock in the nursery gardens were liftled, displacts were sorted out, and the remainder replanted. Trees and shortest were sorted out, and the remainder replanted. The soul shortest were sorted grounds. The last section of the old rock work was taken down and rebuilt. The bog garden at the pond was enlarged. Some further additions have to be made to this branch. Sections of

the herbaceous borders were re-made. Plants where overcrowded were removed, and old clumps which were failing were lifted, divided, and manured.

Considerable progress was made by the Metropolitan School of Art during the Session 1910-11. The number of students in attendance was 426 as METROPOLITAN

SCHOOL OF ART. compared with 391 during the previous session. In the National Competition of Schools of Art and Art Classes the Metropolitan School of Art was conspicuously successful, two of the ten Gold Medals awarded being gained by students of the School. Although the total number of awards was two less than in the previous year, much better results were obtained generally, two Gold and three Silver Medals being obtained in place of only one Silver Medal in 1910. The results obtained in the present year's competition constitutes

a record for the School. The School was entrusted with the designing and illuminating of the Address to Her Majesty the Queen from the Women of Ireland, on the occasion of the Royal Visit in July last, and the work of the School in this connection has been highly appreciated by Their Majesties for its design and beauty of workmanship.

During the year 1910-11 the Geological Survey of Ireland continued the work of mapping certain areas in north-west Ireland on the six-inch scale, GEOLOGICAL these having been previously represented SURVEY only by one-inch sheets. The superficial OF IRELAND. deposits of Clare Island were investigated

and mapped, and mechanical analyses of the soils were prepared. During the winter a scheme was drawn up for colouring the future maps of the Survey in accordance with a series of colourprinted tablets arranged by the Ordnance Survey. The Dublin sheet of the new map on the scale of one-inch to four miles was

prepared for the engraver.

Particulars regarding the year's work in the Royal College of Science, the National Museum of Science and Art, the National Library, the Metropolitan School of Art, the Royal Botanic Gardens, and the Geological Survey of Ireland are given in the Appendices. The Report of the Board of Visitors of the National Museum and the Royal Botanic Gardens is printed at page 489, and the Report of the Council of Trustees of the National Library at page 503.

#### 5 -MISCELLANEOUS.

It was stated in the last Report that the Department had made application to the Development Commis-THE DEVELOPMENT sioners appointed under the Development and Road Improvement Funds Act, 1909, FUND. for advances from the Development Fund for (1) Forestry, (2) Fisheries, (3) Scientific Research for the purposes of Agriculture, and (4) Horse-breeding. These applications have since been fully considered by the Development Commissioners. Representatives of the Department have on several occasions attended meetings of the Commissioners and have given evidence in regard to the details of the recommendations submitted. The Department are glad to be able to report that grants for each of these four purposes have been recommended by the Commissioners and have been sanctioned by the Treasury.

Forestry.—Under this head an advance of £25,000 for the purchase of certain areas for forestry, comprising in all 10,700 acres, has been sanctioned. The amount available for expenditure during the financial year 1911-12 is £17,000. Negotiations for the purchase of the areas in question are proceeding.

Fisheries.—A sum of £4.250 has been sanctioned for the purchase of a dredger and barges. The need for this dredger for use in various harbours has been felt for some time. A suitable dredger, with barges, has been acquired and is now at work. The Department have also submitted an application for a

large grant for the construction and improvement of fishery piers and harbours. This matter is at present under consideration, and the Department have reason to hope that a substantial grant will be made available.

Agricultural Research.—As regards agricultural research, a grant of £3,500 for the financial year 1911-12 has been allocated for general investigation and technical assistance, and the Development Commissioners have intimated that they will be prepared, if satisfactory evidence is produced as to the working of the scheme and if the state of the Development Fund warrants it, to recommend for future years a grant not exceeding £5,000 per annum. The Department's scheme of agricultural research to which this money will be applied, provides for four sections, viz. : (1) control of agricultural seeds and plant diseases; (2) provision of pure cultures of the best varieties of cereals; (8) chemical advisory work; and (4) technical advice and assistance in connection with cattle diseases other than those scheduled under the Diseases of Animals Acts and dealt with by the Department's Veterinary Branch.

Horse-breeding .- The amount allocated from the Development Fund for the encouragement of horse-breeding is £10,000 for the financial year 1911-12. At the end of the year the Commissioners will be prepared to consider the renewal of the grant, and the Department have asked for its renewal. Of this sum of £10,000, the Department have allocated a sum of £4,000 for increasing the number of approved stallions, a further sum of £4,000 for additional nominations of mares, and a sum of £2,000 for a scheme for promoting the breeding of Irish draught horses. This work has been grafted on to the existing horse breeding scheme and the developments now undertaken are

being conducted in connection with that scheme,

The Department have also, at the request of the Treasury,

furnished the Development Commissioners with reports on applications for advances from the Development Fund submitted by the Irish Bee-Keepers' Association, the Irish Tobacco Growers' Association, the Irish Agricultural Organisation Society, the Kinsale Harbour Commissioners, and the County Council of Down.

As mentioned in the Tenth Annual Report, the draft heads of a Bill based on the recommendations of the

IRISH DAIRYING Departmental Committee on the Irish INDUSTRY BILL. Butter Industry, were submitted to the Council of Agriculture at their meeting on

the 19th October, 1910, and were approved by the Council subject to some amendments. The draft as approved by the Council was published by the Department, and copies were sent to the proprietors of Irish creameries and butter factories, to the County Committees of Agriculture, and to the Cork Butter Market Trustees, the Irish Agricultural Organisation Society, the Irish Butter Trade Association, and the Irish Creamery Managers' Association. In the main the suggestions offered by these bodies were con-

sonant with the object of the Bill, but some amendments were proposed which, in the opinion of the Department, could not be accepted without destroying the effective character of the Bill as a means of protecting and promoting the interests of the Irish creamery butter industry.

Much progress has since been made in settling the details of the measure by means of interviews with representatives of the different interests concerned. As a result, the Department hope that when the Bill is introduced into Parliament most of its provisions will have been already discussed and accepted by those qualified to speak on behalf of the butter industry in Ireland.

In the last Annual Report reference was made to the appointment of a Departmental Committee quire into the present state of the flax-DEPARTMENTAL growing industry in Ireland, and the causes COMMITTEE ON THE IRISH FLAX- which are contributing to the decline of GROWING INDUSTRY, that industry and to submit recommendations." The Committee having made a

most exhaustive inquiry into the matters referred to them for investigation, submitted their report to the Department on 20th January, 1911. The report was subsequently presented to

Parliament and published.

It is satisfactory to note that, notwithstanding the serious decline which had taken place in the growing of flax in Ireland, the Committee found that there were some considerations which pointed to a revival of the industry and its probable extension in certain parts of the country. As a result of their examination of the various causes assigned for the decline, the Committee made certain valuable recommendations and suggestions. The Department have already given effect to the more important of these, while other measures suggested by the Committee are

receiving attention.

★The question of the disposal of flax water, which has for so long been a source of friction between flax growers and those concerned in the preservation of fisheries, was also investigated by the Committee. Their recommendations on this subject include proposals for the modification of the law relating to the pollution of rivers by flax water, and to the imitation of prosecutions in that connection. These recommendations are still under the consideration of the Department.

In the discharge of their duties as the central fishery authority of Ireland, the Department have for some DEPARTMENTAL time been considering the important effects COMMITTEE ON of the operations of the Land Purchase IRBH NILAND Acts on the Irish Fisheries and especially

FISHERIES. On the Irish Fisheries and especially on the salmon fishing industry. The magnitude of the interests involved in the salmon fisheries is indicated by the fact that the industry is worth to this

fisheries is indicated by the fact that the industry is worth to this country about £509,000 per annum. The value of the public salmon fisheries at the estuaries of rivers and in the sea depends on the proper treatment of the upper reaches of the rivers where spawning takes place. Hitherto the fishing rights in fresh waters have usually been in the hands of large owners, but with the division of the larger holdings and the transfer of the land to tenant purchasers, the conditions affecting the fisheries are undergoing a considerable change. In cases where the new riparian owners have acquired fishing rights they, as a general rule, show a tendency to be more active in exercising these rights than were their predecessors, and one of the methods of fishing most commonly adopted is that of netting the pools in the rivers and spawning streams. Should indiscriminate fishing by such means as this be allowed to prevail generally it would largely stop the passage of fish down to the sea and from the sea up to the spawning beds. The inevitable results would be a depletion of the stock of fish in the rivers and a shortage of fish available for public catching in the salt waters outside the river mouths.

In view of the great importance of the fisheries as a public mational asset, and of the many and conflicting interests which would be affected by any material change in the methods of protection now in force, the Department felt that this question of the effects of land transfer on the Irish fisheries should form the subject of a public inquiry. The Vice-President accordingly appointed a Departmental Committee for the purpose. The Committee consists of the following members:

The Right Hon. Sir David Harrel, K.C.P., K.C.V.O., etc. (Chairman); The Right Hon. Mr. Justice Ross, Land Judge, High Court of Justice in Ireland.

The Right Hon. F. S. Wrench, Estates Commissioner.
The Rev. John Pentland Mahaffy, D.C.L., LL.D., C.V.O., etc.,
Senfor Fellow of Trinity College, Dublin.

Stephen L. Gwynn, Esq., M.P. W. L. Calderwood, Esq., F.R.S.E., Inspector of Salmon Fisheries for Scotland.

W. S. Green, Esq., C.B., M.A., F.R.G.S., M.R.I.A., Chief Inspector of Fisheries for the Department of Agriculture and Technical Instruction for Ireland.

The terms of reference to the Committee are :-

"To inquire into the effects which changes in the ownership of land in Ireland under the Lend Acts have had or may be expected to the Salmo Fishing Industry, and to make recommendations as to what steps, if any, it may be desirable in the circumstances for the State to adopt in the interests of Irish Fisheries."

The Committee are at present engaged in prosecuting their inquiry, and have held a number of public sittings in different parts of the country for the reception of evidence.

As indicated in their last Report, the Department have for some time had under consideration the question of agricultural credit available for the CREDIT. rural classes in Ireland, with a view to

are called for in the existing system of Raiffeien Banks, but also what form of agricultural credit is best adapted to meet the needs what form of agricultural credit is best adapted to meet the needs country generally, and more especially in the western districts, where large areas of grazing land are being sub-divided into suitable larms, and allotted to mee brought from uncenoming holdings. These men have, as a rule, little, if any, capital, and, generally speaking, are backward in the knowledge of practical grazingly speaking, are backward in the knowledge of practical

anting.

The provision by the Department of teachers and overseers, for the purpose of instruction and adviring these new occupies, to the purpose of instruction and adviring these new occupies, the same scheme is urgently required wheely these holders can obtain, on flow advantable terms, sufficient capital for the stocking and equipping of their farms. Such cases, as previously infinated, cannot be met by the existing agricultural credit societies, as the loans needed are larger than can be obtained from Raiffeisen Banker.

larger tan can be obtained from Audiesen Danas.

The question was under the consideration of the Council of Agriculture at their meeting in May, 1911, when a resolution was unanimously adopted asking the Department to devise and carry out some general scheme by which tenants receiving new tenancies in Congested Districts under the operations of recent Land Acts might obtain financial aid towards stocking their larms and starting life under economic conditions.

The Department have all along realised that the whole problem is one of much complexity, and believed that it should be dealt with, in the first instance, by means of a comprehensive and systematic inquiry by a Departmental Committee. They are

glad to state that, as a result of their representations on the matter, the consent of the Treasury has now been obtained to the appointment of the proposed Committee.

A Committee consisting of the following members has accordingly been appointed by the Vice-President:—

George Murnaghan, Esq., J.P. (who acted as a Member of the Irish Poor Law Commission), Chairman.

ROBERT KYLE KNOX, Esq., LL.D. (late Chairman of the Board of Directors of the Northern Banking Company, Limited).

Charles F. Bastable, Esq., M.A., LL.D., Professor of Political Economy, and Regius Professor of Laws, Dublin University.

The Right Honble. WILLIAM F. BAILHY, C.B., one of the Estates Commissioners for Ireland.

Reverend Tromas A. Finlay, M.A., Vice-President of the Irish Agricul-

tural Organisation Society, and Professor of Economics in the National University of Ireland.

Sir Roder Anderson, J.P. (of the firm of Messrs, Anderson and

Sir Robert Anderson, J.P. (of the firm of Messrs. Anderson an Macauley, Belfast). Walter MacMongoon Kavanagh, Esq., D.L.

THOMAS PATRICK GILL, Esq., Secretary of the Department of Agriculture and Technical Instruction for Ireland.

The following are the terms of reference to this Committee :-

"To inquire into the existing system of credit available for the rard classes in Iroland; to suggest what, if any, improvements, not involving financial assistance from the Exchequer, should be made in the system; and to consider especially the form of agricultural credit most suitable to the requirements of the occupiers throughout the country generally."

The Committee will shortly commence their sittings for the taking of evidence, and they hope, in view of the admitted urgency of the problems to be dealt with, to be able to submit their report at the earliest possible date.

In the year under review, the special schemes devised to meet the needs of small farmers in the congested SPECIAL SCHEMES

SISTED STATES AND ST

ments have been rendered possible by the provision made in Section 49 of the Irish Land Act of 1909. Under this Section an annual sum of £19,000 is provided to enable the Department to exercise the powers and carry out the duties transferred to them under that Act.

The Department arranged an agricultural, educational and industrial exhibit in connection with the "UI BREASAIL." Birely of "UI Breasail," which was held in Dublin in May and June, 1911, under the auspices of the Women's National Health Association.

The Department are paying special attention to the burning of lime throughout the country. A large IRISH MINERALS number of deposits of limestone have been

IRISH MINERALS

AND
reported upon and expert advice given to
RAW MATERIALS.
persons interested. An expert lime burner
has given instruction at the following

places.—Firpark, Borrisolane, County Tipperary; Cornacasas, County Monaghan; Knockennugh, Lisselton, County Kerry; Ballybunion, County Kerry; Camp, Castlegregory Junction, County Kerry, A Ballinalec, County Longford, a limeklin has been erected by a farmers' lime-burning society according to plans and specifications supplied by the Department. An instructor in lime-burning gave a five weeks' course of instruction at this kiln.

The Department have continued to act as a bureau of information with regard to the mineral and raw material resources of the country, and to make inquiries and give advice on many matters relating to these resources.

The Department have continued to make small grants of books, finet exceeding £8 in values of books in the exceeding £8 in values of books of books of the property of the prop

domestic economy, etc., in order to encourage the study of these subjects and to stimulate an intelligent interest in the Department's work. Grants are made only in cases where a committee has been formed for the management of the library, where a collection of books has already been made by local effort, and where the Department have reason to believe that the library will be a useful auxiliary to their schemes of agricultural and technical instruction in the district.

## PART II.—DETAILS OF THE DEPARTMENT'S OPERATIONS, 1910-11.

### I.—AGRICULTURE,

This section of the Report deals with the agricultural year ended 30th September, 1911. The Department's contribution in aid of county agricultural

schemes during the period under review was made on the new basis mentioned in the Tenth Annual Report. Any portion of this contribution remaining unexpended in any county when all liabilities under the 1910-11 schemes have been discharged will be placed to the credit of that county in the Department's books and be available for county schemes in a subsequent year.

#### (a.) AGRICULTURAL INSTRUCTION.

During the year 1910-11 itinemat instruction continued to be the chief means for the promotion of agricultural education throughout the country. The several schemes are increasingly appreciated both by the county committees of agriculture, by whom they are administered, and by the public whom they serve. It is becoming each year more evident that the system of itinerant instruction has not merely a temporary function, vix. to prepare the ground for permanent institutions, but that it also meets the needs of certain sections of the runal population which are outside the scope of other educational agencies. It is tally supplied with schools and colleges for the teaching of agriculture and kindred subjects, the titneamt instructor will still be a powerful factor in the development of Ireland's chief industry.

The four principal schemes of itinerant instruction are those in agriculture, horticulture, poultry-keeping and butter-making. The number of instructors employed by county committees under each of these schemes during the year 1910-11 was as follows:—

Scheme	of ins	truction	$_{ m in}$	agriculture		40
		.,,		horticulture and	bee-	
				keeping,		89
"	.,,	,,		poultry-keeping		85
12		,,		butter-making		88
						_
						147

In 17 counties the instructors in poultry-keeping acted also as instructors under the butter-making scheme; the total number of persons employed was, therefore, 130.

number of persons employed was, therefore, 130.

As compared with the preceding year, the figures show an increase of four instructors in agriculture, three in horticulture and bee-keeping, and two in poultry-keeping. The number of instructors in butter-making was unchanged.

In the entry years of the Department's work there were separate schemes for horsteellure and for bee-keeping. Experiods for the states of the second section of the second second section of the second sec

ments prefer, as a rule, to employ one instructor to carry on the two schemes. This results in the instructors' being appointed for the entire year instead of for periods of from six to nine months as formerly.

The main lines of each scheme are substantially the same. The instructors are all required (1) to deliver exeming lectures or conduct day classes, (2) to visit farms, gardens, poultry-runs, or dividually, and (3) to conduct field or garden demonstrations or give practical lessons in the class-room or elsewhere. Numerous other duties are assigned to the instructors in connection with the various branches of the Department's work, but it is under the three heads mentioned that the greater portion of their time

The effects of the purely itinemat work are made more obvious each year by the steady growth of the demand for course of instruction of a more thorough character than can be provided by evening lectures. During the year 1910-11 such courses were conducted by the itinemat instructors in agriculture, poultry-keeping and butter-making in almost all counties, poultry-keeping and butter-making in almost all counties, account, be attended by nearly so many persons as can avail themselves of the evening lectures, but the loss in this respect is much more than compensated for by the superior quality of the work done and the more permanent results achieved.

The following table shows the extent of the work under the heads mentioned conducted by the itinerant instructors in the year 1910-11:—

Instructor in	No. of Lectures delivered.	Esti- mated attend- ance at Lectures.	No. of Classes con- ducted.	No. of Students admitted to Classer.	No. of Visits to Farms, Gardens, Dairies, etc.	No. of Demon- stration Plots Inid down,
Agriculture Horticulture and Bee-	776	35,500	78*	1,339	14,709	2,124†
keeping	207 531	8,487 28,674	1,552	20,176	31,273 14,225	302
Butter-making	185	3,113	3,282	26,256	6,510	=

The number of hours' instruction at agricultural classes is usually about 150, and at classes in butter-making and at tutorial poultry classes about 20 each. The maximum number of students admitted is, unless in exceptional circumstances, 24 at agricultural classes, 18 at poultry classes, and 12 at butter-making classes.

<sup>\*</sup> Five teachers were specially employed for these classes in addition.
to Country Instructors,
† Exclusive of the plots included in 662 agricultural experiments.

The assistant agricultural overseers who are employed directly by the Department under the special schemes for the improvement of farming in the congested districts of the western counties, perform duties similar in some respects to those of the county itinerant instructors in agriculture but within more limited areas. During the year 1910-11 thinty-eight assistant overseers were at than 10,580 demonstration plots were laid down under their supervision.

The demand for admission to the more prolonged courses which are provided at permanent agricultural institutions continued to increase. During the year under review no new agricultural school was opened, but operations in connection with the establishment in county Antrim of a school for twenty-five male students were pushed forward and it is hoped that class the properties of the properties of the properties of the additional residential places were provided during the year by extensions of the accommodation at existing schools.

The following table shows the number of places held by resident students at institutions under the Agricultural Branch of the Department during the past two years:—

Male Stu	lents.			1909-10	1910-1
Institutions und Management (7) Institution , under		partmen Mana		169*	176
ment				20	20
	T	OTAL,		189	196
Female S	tudents.				
Institutions und Management (2)		partmen		84	104
Institutions under ment (7)	Privat	e Mana	ge-	115	122
		TOTAL,		199†	226

The training of itinerant instructors and teachers for agricultural schools was continued as heretofore at the Royal College of Science, the Albert Agricultural College, and the Munster Institute. During the year 1910-11 sixteen students completed their course successfully. No less than one hundred and forty persons trained at these institutions are now employed either by county committees of agriculture or directly by the Penartment.

<sup>•</sup> Includes 28 students, mostly holders of sebolarships at the Royal College of Science, for whom maintenance allowances were provided instead of redsential accommodation at one of the Decartment's institutions,

1 At the Department's institutions for feenals students four essiless are held annually,
and at private institutions two excelous annually. The number of places liked throughout the year, an above above, in therefore, much less than the punisher of popula similation.

In July, 1911, the new Royal College of Science buildings were formally opened by His Majesty King ROYAL COLLEGE OF George V., and by October, 1911, all was in readiness for the work of the 1911-12 SCIENCE AGRICULTURAL

session. Students of the agricultural FACULTY. faculty are now provided with the most favourable facilities for obtaining a thorough

training in all branches of their work.

The full associate course of training at the College required in order to obtain a diploma has hitherto been of three years' duration. It is proposed, however, to extend the course to four years in future. The scholarships offered annually by the Department in connection with the agricultural faculty will, consequently, be continued for a fourth year to enable students to complete the full programme,

The training of teachers for employment under the Department's programme of agricultural education was continued as in previous years.

Seven students (six being scholarship holders and one a feepaying associate student) completed the three years' course of training in June, 1910. Of these, six obtained the college associateship in agriculture, and one in horticulture. During 1910-11 all received appointments in connection with the Department's educational schemes.

Up to the end of the 1910-11 session, seventy-two students who entered the faculty as holders of scholarships provided by the Department had completed their course. Of these, thirtyfive are employed as itinerant instructors in agriculture, three as teachers of agricultural classes, nine at the Department's colleges and stations, and twelve on the central staff of the

Department.

Seventy-eight candidates sat at the examination for scholarships in the faculty of agriculture held in August, 1910, in accordance with the terms of the prospectus printed in the Appendices, page 209, of this Report, and, as a result, eleven new scholarships, ten in agriculture and one in forestry, were awarded. None of the candidates in horticulture or creamery management reached the qualifying standard. Twenty-two scholarships awarded in the previous years, viz., twenty in agriculture, one in forestry, and one in horticulture, were renewed in full for the 1910-11 session. There were three fee-paying associate students in the faculty during the session.

The total number of students in the faculty at the close of the session in June, 1911, was :--

> First Year, ... 12 Second Year, . . 13 Third Year, .. 26

Eight of the third year students passed their final examinations and were awarded the college associateship in agriculture.

The courses of training in agriculture and horticulture provided at the Albert Agricultural College were ALBERT continued in 1910-11.

AGRICULTURAL

The agricultural course extended from the 11th October, 1910, to the 11th August. COLLEGE. 1911, and the horticultural course from 11th October, 1910, to 30th September, 1911.

The agricultural course forms an excellent training for young farmers who desire either to enter the agricultural faculty of the Royal College of Science or to follow the farming profession in Ireland. The entrance examination for this course was held in September, 1910, and was attended by seventy-one candidates, an increase of eleven as ompared with the previous year, Thirty-two of these candidates qualified for entrance to the course and were admitted. Places were also awarded to three other applicants, viz., one who had qualified for entrance in 1909; one who had qualified as a result of his answering at the 1911 examinations for scholarships in agriculture at the Royal College of Science; and one who had gained a scholarship provided by the Kilkenny county committee of agriculture from the joint fund administered by that body. The competition for this scholarship, which was of the value of £50, was confined to students who had attended winter agricultural classes held in county Kilkenny under the Department's scheme for such classes. The award was made on the result of a special examination conducted by the Department, at which nineteen candidates attended. The total number of students admitted to the course was, therefore, thirty-five, all of whom were sons of farmers. The programme of the entrance examination is given in the Appendices, page 211.

Four students of the college were successful in obtaining scholarships in agriculture, tenable at the Royal College of Science, at the examination held in August, 1911.

The horticultural course was conducted on the same lines as in the previous year. This course is intended only for persons who have had thorough practical experience of garden work, and was designed mainly to enable the students to become qualified for appointments as county instructors under the Department's scheme of instruction in horticulture and bee-keeping. The students receive payment for the work done by them in the gardens, and they are provided with furnished lodgings in a suitable building on the college farm. As the accommodation is limited, not more than eight or nine students can be admitted to any one session.

Seventeen applicants for admission to the 1910-11 session were admitted to the entrance examination in August, 1910, and of these seven were found fit to take advantage of the course of instruction. Two students who had attended the 1909-10 session were re-admitted for a second year's training. The number of students at the 1910-11 session was, accordingly.

As a result of the examinations held at the conclusion of the session, the two second-year students were approved as qualified for appointment to county instructorships, and three of the firstyear students were re-admitted for further training.

One past student of the school, who completed his course successfully in September, 1910, was appointed, during the year under review, as instructor in gardening at the Department's agricultural schools for girls in counties Mayo and Sligo.

Twenty-nine men, trained in the school, are now employed in connection with the Department's horticultural work.

The course at the horticultural school includes instruction in bes-keeping. One instructor under the Department's scheme of instruction in horticulture and the management of bees, who had not been passed as qualified in bes-keeping, received a special short course of training at the school during 1910-11, and passed the qualifying examination. All the instructors in horticulture are now qualified to act as instructors that the course of agriculture, in addition to the horticultural instructors.

The programme of the entrance examination for the horticultural school is given in the Appendices, page 213.

The following table shows the number of candidates for admission to, and number of students in residence at, the Albert Agricultural College for the year 1910-11 and the two previous years:—

		Candida	bes	Students in Residence				
	1908-9	1909-10	1910-11	1908-9	1909-10	1910-11		
Agricultural course, Horticultural course, Royal College of Science	51 6	60 13	71 17	25 6*	35 7	35 9		
course	-	-	_	16	16	15		
Totals, .	57	73	88	47	58	59		

<sup>\*</sup> Resided at lodgings in Glasnevin Village.

Farm apprenticeships for persons who proposed to follow farming in Ireland were provided, as in agricultural stations at Athenry, Ballyhaise, and Clonakity. The course at Athenry

and Clonakitly. The course at Athenry differs considerably from that given at the two other stations. At Athenry the training is confined, almost exclusively, to practical work on the farm, while at Ballyhaise and Clonakitly the interaction of the angle of the state of the stat

In addition to the course for farm apprentices, a course of instruction in creamery management was conducted at Ballyhaise agricultural station from October, 1910, to March, 1911. The minimum age for admission to this course was reduced in 1910 from 20 years to 18 years. There were eleven students, all of whom attended the examination in technical subjects as applied to creamery management held in March. 1911. Seven passed in all the subjects, two passed in three subjects, and two in two subjects, of the examination. At the termination of the course of training at Ballyhaise the Department provide as far as possible facilities for suitable students to obtain further practical training in the actual work of creamery management at selected creameries. These students are allowed a sum of 10s. per week for maintenance in addition to free instruction while they are engaged in creameries. Seven of the creamery students at the 1910-11 session received further instruction of this nature.

Two students were admitted to Ballyhaise agricultural station at a fee of £5 each as apprentices in cheese-making during the season May to October, 1911. Brief details of the results of the cheese-making experiments are given at page 85 of this Report.

At Clonakity agricultural station the session lasted from October, 1910, to August, 1911. Three of the pupils were admitted as holders of scholarships of the value of 220, offered by the Wexford County committee of agriculture, for competition in that county. The scholarships were awarded on the results of the special examination held by the Department. The agricultural committees of three counties—Kilkenny, Tipperary, N.R., and Wexford—have provided similar scholarships at

The total number of students, including paid apprentices, at

the agricultural stations for the years 1907-8, 1908-9, 1909-10, 1910-11, was as follows:—

		1907-8	1908-9	1909-10	1910-11	
Athenry, Ballyhaise, Clonskilty,	:	10 26 30 66	10 35 30 75	12 39 30 81	12 38 30 80	

The percentage of agricultural students of each class at the three stations during these years was as follows:—

Valuation of Parents' Holding	Percentage of Total Agricultural Students						
	1907-8	1908-9	1909-10	1910-11			
ions of farmers the annual valua- tion of whose holdings was:— Under £20 and £40 ,", £40 and £100 Over £100 Sons of persons other than farmers	32 26 22 9	31 19 22 9	31 26 17 20 6	27 28 19 20 6			
	100	100	100	100			

invol.1. aniowance or one penny per mile ror every mile, in excess of six miles, of the double journey between their home and the class centre. In the pre-ceding year students were not eligible for an allowance unless they were resident more than four miles from the class centre. Those students who travelled by rail were, as usual, allowed third-class fare; and 2—no applicant was permitted to join a class after the lapse of two weeks from the opening date.

Twenty-seven county committees of agriculture adopted the scheme, and classes were established at seventy-eight centres. Thirteen hundred and thirty-nine students in all were admitted to the classes. In counties Cavan and Kerry classes under the scheme were held for the first time, while those counties in which the scheme had been in operation for the year 1990-10 continued the scheme for the year under review, with the exception of county Westmeath. At the classes held in the last-named county during the year 1909-10, the attendance of students had been disappointing.

As compared with the figures for the preceding year, there was an increase of eight in the number of classes, and of nearly two

hundred in the number of students.

Thirty-five teachers of agriculture were employed, five of these having been specially engaged for the work, while the remainder were county itinerant instructors under the agricultural instruction scheme.

The following table shows the extent to which the scheme of winter agricultural classes has been availed of since its inception:—

Number Number

Number

Year		Counties	Classes	Students
1902-3,		2	2	44
1963-4,		7	7	161
1904-5,		8	18	317
1905-6,		11	25	422
1906-7		12	28	449
1907-8		15	33	529
1908-9.		20	50	875
1909-10		26	70	1.166
1910-11,		. 27	78	1,339

For copy of the scheme see page 254 of the Appendices.

Details as to the classes held during the 1910-11 session are given in the following table:—

COUNTY AND CLASS CENTRES	Duration of Course in Weeks.	Number of Days weekly on which Glass met.	Number of Studente admitted.	Subjects other than Agriculture in which instruction was given.	
Co. Antrim					) Veterinary Hygiene, Hor
Ballycarry		16	2	18	veterinary Hygiene, Hor
Ballymena,		16	2	26	ticulture and Poultry-
Co. Armagh-					
Hamiltonsbawn,		16	2	13	Veterinary Hygiene and
Lurgan.		16	2	12	Horticulture
Co. Carlow—	-1		_		, -xoreconducto
Bagenalstown, .		16	2	8	l)
Clonmore.	- 1	16	2	9	K -
Co. Cavan-				1 -	
Derryham, .		15	2	23	b
Loughduff, .		15	2	17	Horticulture,
Maghera,		15	2	13	) mornouncus
Co. Clare	- 1				
Corofin.		16	2	19	Veterinary Hygiene and
Tulla.	- 1	15	2	24	Horticulture.

COUNTY AND CLASS CEN	Duration of Course		Duration of Course in Weeks. Number of Days weekly on which Class met.		Subjects other than Agriculture, in which instruction was given.			
Co. Cork— Ballyelough, .		14	2	16	Veterinary Hygiene and Horticulture.			
Beeing, Charleville,		15 16	2 2	15 16	Horticulture. Veterinary Hygiene and Horticulture.			
Clogagh, Cloghroe, Culien, Doneraile,	:	†13 15 15 15	2 2 2 2 2	12 21 12 12	Yeterinary Hygiene and Horticulture Horticulture. Veterinary Hygiene and Horticulture.			
Inchigeela, Kealkil, Reenascrana, Rossmore, Toames, Tracton.		15 15 †12 †14 15 16	2 2 2 2 2 2 2	11 16 35 29 15 20	Horticulture.  Veterinary Hygiene and Horticulture. Horticulture. Veterinary Hygiene and			
Co. Down Downpatrick,	Ì	16	2	19	Horticulture.  Peterinary Hygiene and			
Dromore, Co. Fermanagh— Derrykeeghan,		16	2	26 5	Horticulture.			
Skea, Co. Galway— Gurteen,		16	2 2	8	Horticulture.			
Headford, ]	:	17	2	13	Horticulture.			
Co. Kerry— Ballylongford, . Castleisland, . Co. Kilkenny—		18 19	2 2	12 16	Horticulture.			
Johnstown, Kells, Muckalee, Owning,	:	16 16 16	2 2 2 2	32 20 33 20	Horticulture.			
Windgap, . King's County—		16	2 2	22	,			
Killeigh, . Moneygall, . Co. Leitrim—	:	19	2	17	Horticulture.			
Kinlough, Manorhamilton, Co. Limerick—	:	15 16	2 2	24 24	Horticulture.			
Bruree, . Croagh, . Doon, .	:	17 16 17	2 2 2	7 9 25	Horticulture,			
Hospital, . Kilcolman, .	- 3	* 1 16	2	12	)			

<sup>†</sup> Class interrupted owing to illness of teacher.

\* Class discontinued owing to poor attendance.

_	COUNTY AND CLASS C	œs.	Duration of Course in Weske,	Number of Days receipt on which Olass mot.	Number of Students admitted.	Subjects other than Agriculture in which instruction was given.	
Co	Londonderry-	-					b
۸.	Garvagh, Magherafelt, Longford—	÷	- :	18 17	2 2	29 31	Veterinary Hygiene and Horticulture.
-	Aughnscliffe, Ballinamuek.			*12 16	2 2	11 10	Horticulture.
	Louth— Dunleer,	Ċ		16	2	10	Horticulture.
Co.	Mayo— Castlehar,			16	2	14	)
	Charlestown,			16	2	22	\$
	Kiltimagh, Partry,	•		17	2 2	13	Horticulture,
	Swinford,			17	2 2	19	/
Co.	Meath-			17	2	13	
	Dunshaughlin,			17	2	4	1
	Longwood,			16	2	6	Horticulture,
_	Navan,			16	2	7	,
Şu.	en's County—		- 1				h
	Ballickmoyler, Quarrymount,	•	1	16	2 2	23 11	Horticulture.
'n	Roscommon—			17	2	11	
٠.,	Callow,			15	2	13	l.
	Croghan,			14	2	13	Horticulture,
Co.	Sligo-		- 1		-1		1
	Kilmactelgue,			16	2	27	Veterinary Hygiene and
٧.	Mullinabreens, Tipperary, N.B.			15	2	20	Horticulture.
٠٠.	Roscrea.		- 1	16	2	31	l
	Thurles,		- 1	15	2	32	Veterinary Hygiene and
Zo.	Tipperary, S.R.	-	-1	10	-	02	Morneuture.
	Clonmel,			16	2	15	Veterinary Hygiene and
	Dundrum,			16	2	21	Horticulture.
ю.	Tyrone— Augher.						1
	Ballinamallaght		-	17	2	11 20	1
	Brigh,	,		16	2 2	8	Veterinary Hygiene and
	Feglish,	:		17	2	17	Horticulture,
	Greencastle,			17	2	23	
ъ.	Waterford-		- 1	1	- 1		}
	Clashmore,			15	2	23	Horticulture.
ъ.	Rathgormack, Wexford—	٠,		15	2	18	Moreowelle.
	Oulart.		-1	17	3	12	Horticulture,
	Poulpeasty,		-	18	3	25	,

Total—78 classes .. 1,339 students

<sup>\*</sup> Class discontinued owing to poor attendance.

It will be observed from the foregoing table that, in addition to the ordinary agricultural teaching, instruction in veterinary hygiene was provided at twenty-nine classes, and outdoor demonstrations in horticulture by the county itinemati instructor in that subject were given at seventy-six classes. The horticultural demonstrations were purely practical, no lectures being given. About six of these demonstrations, of from one to two hours' duration, were given at each centre. In county Antrim some lessons in poultry-keeping by the county itinerant in-structor were given at each of the two classes.

According to clause 4 (4) of the scheme, the classes were to be held in the morning and afternoon, and in the great majority of cases this regulation was strictly adhered to. In the case of one or two centres, however, afternoon class hours solely were sanctioned, in view of exceptional circumstances, such as an inconvenient train service. It is obvious that these classes are more effective when held during the day than in the evening, as, among other reasons, much of the work, such as the examination of grasses and seeds, land surveying, etc., must be done by daylight. If evening classes were held the students would perform their farm work before attending, and would arrive at the classes with their energies more or less exhausted. They would thereby be unfitted to some extent for deriving full benefit from the instruction provided. County committees of agriculture generally appreciated fully the advantages of day classes, and students willingly attended, although it necessitated their absence from farm work during the day. In the majority of cases the classes were entered for the earn-

ing of grants under the Department's programme for technical schools and science and art schools and classes. The grant for instruction of this nature given at these classes was, in 1910-11, at the rate of 3d. per attendance hour. A class of, say, sixteen students, attending with ordinary regularity, would, at

this rate, earn a grant of about £20 for the session's work.

The Kilkemy, Tipperary, N.R., and Wesford county committees of agriculture offered, for competition among the students of their classes, scholarships of the value of £20 each, tenable at the Department's agricultural stations at Ballyhaise or Clonakilty for the 1011-12 session. In the case of each county the which the scholarships well examination, on the results of which the scholarships well examination, on the results of which the scholarships well examination, and the scholarships with the scholarship with the s

It may be noticed in this connection that students of winter agricultural classes who have attended satisfactorily and have applied themselves to the work, receive preference over other applicants for farm apprenticeships at the Department's agricultural stations, and in their cases the usual entrance examination is dispensed with.

In recent years the Department have observed with satisfaction that past students of the classes have been prominent in aiding itinerant instructors in agriculture in carrying out experimental agricultural work under the scheme of agricultural instruction, and in forming societies for the development of agriculture generally in their respective districts.

At Mountbellew school (see page 220 of the Appendices) the Franciscan Brothers conducted a course MOUNTBELLEW in agricultural and horticultural subjects and ECOLOGI.

In agricultural and horticultural subjects and closed on the 6th September, 1910.

The practicular training of the students in The college buildings and attached farm are now very fully coupting with the apparatus necessary for the teaching of

elementary science as applied to agriculture, and with modern farm machinery and implements. Twenty students attended during the session, all of whom resided in the college.

It was mentioned in last year's Report that a house and

AORICULTURAL

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OF establishing an agricultural school for north-east Ulster. Possession of the holding was given to the Anti-mic County Council, ing was given to the Anti-mic County Council.

by whom structural alterations necessary to fit the house for use as a school over undertaken. It is anticipated that the work will be sufficiently advanced to admit of day classes being completed, necommen the school buildings shall have been completed, necommen the school buildings shall have been students will be available. The Department are bearing the capital expenditure of the undertaking, and the cost of maintaining the school will be borne by the joint fund for agricultural agriculture. The University of the Antrian county committee of agriculture. The University of the Antrian county committee of sufficient to the upkeep of the school in respect of six places which are to be reserved for students from that county. A portion of the lands is under timber, and the Department are of the voiced scarse operations necessary for the minitenance

Negotiations for the purchase of a farm within two miles of Strabane for the purposes of an agricultant of the purpose of an agricultant proceeding state for north-west Ulster are approaching the proceeding proceding state of the procession will be obtained early next verification.

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The Department's programme of agricultural education for girls was carried on at eleven schools of which nine are residential. Of these FOR GRES.

Ulster Dairy School at Cookstown, county

by the Department directly, and open to pupils from all parts of the country. At the nine other centres local schools of rural domestic economy are working, under private management, subject to the Department's supervision. The latter schools are intended chiefly for girls living in their immediate

neighbourhood who attend as day-pupils, but residential places are provided for those who cannot return daire. At the Munster Institute and Ulster Dairy School there are four terms annually. At the local residential schools the year is divided into two terms. The fee per term in both cases is 82 82. or 28.

The aim of these schools is mainly to train gifts of the farming class in the work usually assigned to them in their own homes. In addition, the Munster Institute and Ulster Dairy School provide advanced courses to enable pupils to qualify for employment as (a) dairymaids in creamenes or large dairies, (b) county instructors in dairying and poultry-keeping, and (c) teachers at agricultural schools for girls. The course for (a) occupies et agricultural schools for girls. The course for (a) occupies the course for all their for (b) and (c) extends to at least six terms.

The principal subjects of the programme are :-

Dairying,
Poultry-keeping,
Cottage gardening,
Household management,
Cookery,
Sewing,
Laundrywork.

Instruction in butter making and poultry-keeping is also provided at two schools of domestic training (Dumnanway, county Cork, and Dundrum, county Tipperary), which have been recognised for the award of girls' scholarships by county committees of agriculture and of technical instruction. At all schools the qualifications of the teachers employed must

At all schools the qualifications of the teachers employed must be approved by the Department. No new agricultural schools for girls were established during

the year under review, but provision was made for the reception 30 additional resident pupils at existing schools, as follows:—

Ulster Dairy School, 20 additional places.
Portumna School of Rural Domestic Economy. 5

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Swinford school of do. do.

In all, places for 245 resident pupils are provided. The full

number of pupils is at present in training.

Greater facilities were provided during the year 1910-11, in connection with agricultural schools for girls, for the training of dairymaids for creameries or large dairies. Suitable pupils who complete two sessions' training at any of these schools can now be admitted to the third term course at the Munster Institute or Ulster Dairy School, on conclusion of which apprenticeships in creameries are awarded to the best pupils, who are thus enabled to obtain a thorough practical training under actual commercial conditions in the several branches of work assigned to dairymaids in creameries.

The attendances at the four sessions which were held at the institute during the year amounted to 225. At the end of the year there were 220 appli-MUNSTER cants awaiting their turn for admission. INSTITUTE. The courses for the training of teachers CORK.

and of county instructors were continued during the year. Six students passed their final examinations for these positions. Five qualified students of the institute obtained employment in connection with the teaching of the Department's programme. The total number of pupils so employed now amounts to 52, viz., 28 instructors in poultry-keeping and butter-making, 1 instructor in poultry-keeping only, 8 instructors in butter-making only, and 20 teachers in agricultural

schools for girls.

DISTER

The four terms held at this school during the year were attended by 137 students. In addition to these applications for admission were DAIRY SCHOOL. received from 110 other girls. The struc-COOKSTOWN. tural alterations and additions referred to in last year's Report were completed, and 50 pupils are now admitted to each term.

Prospectuses of the Munster Institute and the Ulster Dairy School will be found in the Appendices, pages 220-221.

These schools, nine in number, work under agreement with the Department and are aided by grants to-SCHOOLS OF wards the expenses of management, salaries RURAL DOMESTIC of approved teachers, maintenance of resi-ECONOMY. dent pupils, and cost of teaching equipment.

Day and resident pupils are received at six

schools, day-pupils only at two schools, and resident pupils only at one school. There is an increasing demand for places for resident pupils, but in several cases difficulty is experienced in obtaining a sufficient and regular attendance of day-pupils, especially during the spring and summer months, when the girls are required for work at home.

The following table shows the number of day and of resident pupils admitted to the schools during the year 1910-11:—

School	Day Pupils	Resident Pupils. including re-admissions	Total
Westport, Co. Mayo.	98	39	137
Claremorris, Co. Mayo,	35	30	65
Swinford, Co. Mayo,	33	20	53
Portumna, Co. Galway,	41	40	81
Clifden, Co. Galway,	19	30	49
Killeshandra, Co. Cavan	13	14	27
Ramsgrange, Co. Wexford,	_	72	72
Loughglynn, Co. Roscommon, .	77		77
Benada, Co. Siigo,	95	-	95
Total, year 1910-11 (9 schools)	411	245	656
1909-10 (9 schools)	438	215	653
1908-9 (9 schools)	474	185	659
1907-8 (8 schools)	305	161	466
1906-7 (5 schools)	248	135	383
1905-6 (3 schools)	228	40	268

A large hall for the instruction and recreation of pupils was recreted at Loughtym school during the year at a cost to the Department of \$298. The managers afforded valuable assistance towards the promotion of the practice of spanying the potatocrop, by undertaking arrangements for the lending of handspanying machines to small holders in the neighbourhood of the school, which is situated in a congested area. Twenty-four machines were supplied by the Department for this purpose, and the scasson of 1911, ninety-seven persons availed themselves of the machines.

Alterations and additions to the buildings of Portunna school were carried out during the year, to provide better accommodation for pupils and teachers. The Department made a grant of \$256 towards the cost of these alterations. Twenty-five resident

£256 towards the cost of these alterations. Twenty-five resident pupils are now trained at this school in each session.

The Department's scheme of instruction in agriculture for the

year 1919-11 (printed on page 252 of the Appendices) was substantially the same instruction in as that for the previous year. It was put agriculture. Forty instructors were employed during the year. Twenty-seven county committee of employed one instructor; three instructors were employed in

county Cork, and two in each of the following counties:

Antrim, Limerick, Mayo, Tyrone and Wexford.

The increase in the number of instructors employed each year since the inception of the scheme may be regarded as a fair indication of the rate at which the work done under the scheme has developed. The following table will accordingly be of interest:—

Year.		No. of instructors employed						
1900-1,	 			8				
1901-2,	 			10				
1902-3,	 			10				
1908-4,	 			17				
1904-5,	 			21				
1905-6,	 			28				
1906-7,	 			30				
1907-8,	 			84				
1908-9,	 			36				
1909-10,	 			36				
1010-11				40				

months in the great majority of counties, thirty instructors being employed in connection therewith. Itinerant lectures were, however, given by instructors in all counties, and formed an important feature of the work of agricultural education. The lectures given each winter are especially useful as a means of bringing fully before farmers the results of the agricultural experiments conducted by the instructors throughout the country during the preceding season. In all, 776 lectures were delivered at 369 centres, at which close on 35,500 persons attended, giving an average of about 45 per lecture. Lectures are delivered in the evening and during the winter months only. The figures for lectures and attendances thereat have declined since 1907-8 owing to an increasing proportion of the instructors having been employed each year in teaching agricultural classes throughout the lecture season. During the year 1910-11 the instructors paid 14,709 visits to

The teaching of agricultural classes was the chief work assigned to the agricultural instructor during the winter

farms, an average of 368 visits for each instructor.

Particulars of the field experimental and demonstration would

Particulars of the field experimental and demonstration work carried out by the instructors will be found on page 70 of this

Report.

During the summer months, in addition to attending to their experimental work, the visiting of farms, etc., the instructors carried out the work of judging under the Department's scheme of prizes for cottages and small farms. Each instructor judged in a country other than that in which he was employed. The instructors also assisted in work under the Department's dairy mature of the property of the country of

cattle registration scheme and in performing certain duties in connection with the Fertilizers and Feeding Stuffs Act, and the Weeds and Seeds (Ireland) Act.

A conference of the instructors employed under this scheme and the Department's central agricultural staff was held in June. 1911, at the Royal College of Science and at the Albert Agricultural College, Glasnevin. The conference lasted two days, and afforded opportunity for full discussion of the several branches of work carried on by the instructors and of the modifications in the programme of operations proposed for the year 1911-12.

The Department made arrangements by which several of the senior instructors visited, under the guidance of the Professor of Agriculture at the Royal College of Science, a number of farms and agricultural institutions in Great Britain during the last fortnight in June, with a view to becoming better acquainted with agricultural methods practised there. This visit took the place of the educational tour which the Department formerly provided for the agricultural instructors immediately after completion of their course at the Royal College of Science. It is considered that the benefits to be derived from such a tour are greatly increased by its postponement until the instructors have had some experience of the practical problems which confront them in their work in this country, and are in a position to judge to what extent methods not hitherto followed here could be advantageously introduced.

Five overseers and thirty-eight assistant overseers were employed throughout the year. Their duties AGRICULTURAL consisted chiefly in the giving of advice and OVERSEERS IN CON- assistance to farmers in all matters relating GESTED DISTRICTS. to tillage, to the care and management of

live stock, and to the purchase of seeds, manures, and feeding-stuffs. At the close of the year an additional assistant was appointed to work a district newly formed at Kildysart, county Clare.

The location of these officers is now as follows:--

County Donegal.—One overseer and five assistants.

Counties Mayo, Sligo, and Roscommon.-One overseer and thirteen assistants.

County Leitrim.—One overseer and two assistants.

Counties Galway, Clare, and Roscommon (Castlerea district) .--One overseer and twelve assistants. Counties Kerry and West Cork .- One overseer and seven

assistants. In addition to the above, eighteen extra assistants were employed temporarily during the spraying season to give instruction and demonstrations in the spraying of potatoes and to repair

spraying machines.

A large number of plots was again established for the purpose of demonstrating the advantages to be special derived from the use of fresh seed and STRATION PLOTS the application of suitable manures. The

STRATION PLOTS the application of suitable manures. The number of such plots laid down was as follows:—

Description	of P	lot		Quantity of Seed, &c., supplied for each Plot	No. of Plots
Potato				1 cwt.	2,357
Oats.				**	1,357
Barley, .				**	58
Wheat, .				**	197
Turnips and Ma	ingels			1 lb.	1,009
Grass, .	-			12 lbs.	1,320
Artificial Manur	es,			1 cws.	1,922
Lime.				10 cwts.	192
Basic Slag, .				2-24 cwts.	433
Potato Sprouting	2 .			6-12 boxes	1,032
Vegetables	٠.			7 varieties of	
				vegetables	709
	T	OTAL			10,586

TOTAL,

The distribution of the plots was as follows:---

Donegal,				 1,672
Mayo,				 2,601
Sligo				 223
Roscommo	on,			 470
Leitrim,				 857
Galway,	٠.			 1,763
Clare,				 702
Kerry,				 1,385
West Corl	٤,			 913

The seeds and manures for the sowing of these plots was supplied by the Department at approximately half the gross cost, and the persons who received seed undertook to cultivate their plots in accordance with the overseer's directions. The plots thus established served as examples to farmers in the

vicinity.

The number of plots laid down in 1910-11 showed a marked increase over the figures for previous years, as may be seen from

the	append	ed 1	artic	ulars	:				
	1907,							8,834	
	1908,							8,288	
	1909,							8,843	
	1910.							9.579	

. 10,586

During the summer the agricultural overseers devoted their energies largely, and the temporary deportance of the t

potatoes.

In addition to giving demonstrations and general advice regarding the spraying of the notato crop, the

overseers and demonstrators undertook the sale of hand-spraying machines at reduced prices to small holders in localities where such machines were not readily procurable at reasonable prices, the provision, at cost price, of repair parts for spraying machines. and the repairing of machines.

The following table shows the number of spraying machines sold and repaired by the overseers and temporary demonstrators throughout the congested districts during 1911 :-

	Distri	ict			Sold	Macnine Repaired
Co.	Donegal,				189	597
"	Mayo,	٠.			431	420
"	Sligo,				175	203
**	Roscomme	on,			130	93
**	Leitrim,				101	109
**	Galway,				304	211
22	Clare,				120	85
**	Kerry,				74	118
**	West Corl	ε,	-		43	57
			TOTAL		1,567	1,893

The extent of the operations in connection with potato spraying during the past five seasons was as follows :-

, eason	Sold Sulphate of Washi				old Ma		Machines Repaired	
1907, 1908, 1909, 1910, 1911,	1,259 1,364 1,211 2,112 1,567	7. 61 75 1	0, 11 6 17 0	Q. 1 2 1	T. 27 36 1	0. 1 13 7	4. 0 1 3	1,382 1,001 996 1,701 1,893
TOTAL,	7,513	139	15	0	66	7	0	6.973

In consequence of the stocking of copper sulphate and washing soda by local traders throughout the congested districts, it was found unnecessary for the Department to arrange for the supply of spraying materials, save on Clare Island.

The reduction in the number of machines sold during the past year is to be attributed chiefly to the unusually fine weather which prevailed throughout the summer retarding the appearance and checking the development of blight.

To overcome initial difficulties in the way of proper cultivation. and to encourage the use of agricultural SALE OF implements by new holders on the estates in congested districts; recently settled by IMPLEMENTS.

the Congested Districts Board or the Estates Commissioners, the Department supplied to farmers on these estates, at three-fourths cost price, a limited number of ploughs, drill grubbers, harrows, etc., purchased from merchants in the several localities.

The number of implements thus sold is shown in the following table:—

ble :						N.	mber
		nplement					
	Ploughs,	٠.					83
	Harrows						6
	Drill Gra	ibbers,					39
	Rollers.						2
	Morrors						60
	Reaping	attachme	nts fo	e Mo	wers,		25

Arrangements have also been made to supply threshing machines under this scheme in the Castlerea and Ardrahan districts.

Syringes to the number of forty-eight for the treatment of contagious abortion in cattle were sold to holders of premium bulls in the west during the past year. The number of these instruments sold during the previous year was thirty-seven.

This scheme, particulars of which appeared in the Appendix to the Tenth Annual Report, was initiated in the year 1000-10, and was continued during the year under review. The following tables show the extent of the scheme and

the districts now visited by the 27 veterinary surgeons :-

Com	aty	Headquarters of Veterinary Centres at which Dispensaries Surgeon are held
Donegal		. Milford . Tamny, Termon, and Carrigart.
Do.		Bundoran Cliffony and Ballintra.
Do.	•	Falcarragh . Creeslough, Dunfanaghy, Burton port, Dungloe and Gweedore.
Do.		Dunkineely . Glencolumkille, Carrick, Killybeg and Donegal.
Leitrim		. Manorhamilton Beleoo, Glencar, Creevalea [ans Kiltyclogher.
Do.		Drumshambo Dowra, Keshearrigan, Drumkeeran Ballinamore and Ballylarnon.
Mayo		. Ballina Easkey, Ballycastle, Killala an
Do.	٠	Swinford - Charleston, Foxford, Kilkelly Aclare and Kiltimagh.
Do.	٠	. Westport Newport, Achill, Liscarney, Louis burg, Mallaramy, Killavalle and Ballycroy.
Do.	٠	Belmullet Barnatra, Gweesala, Bango Poulathomas, Glenamoy at Blacksod.
Roscom	mon	Boyle Gurteen and Ballaghadereen.
Do.	ALION.	. Castlerea Urlar, Frenchpark and Ballinloug
Galway	- :	. Galway Spiddal and Oughterard.
Do.		Clifden . Letterfrack, Masm. Costello, Le
Do.	•	nane, Carna, Recess and Roun stone.
Clare		Ennis Tulla, Tubber, Scarriff and Enn tymon.
Do.		. Kilrush Labasheeda, Kilmihill, Liasycas and Kildysart.
Do.	•	. do Carrigaholt Kilkee, Doonbeg a Miltown Malbay.

County			Headquarters of Veterinary Surgeon	Centres at which Dispensaries are held
Kerry			Cahirciveen .	Glenbeigh, Portmagee, Waterville Caherdaniel and Speem.
Do.			Killarney	Killorglin, Loobridge, Rathmore and Kenmare.
Do.			Listowel	Polleder of a 1 o
Do.		- 1	do.	Ballylongford and Causeway.
Do.		- 1	Thenles	Lisselton and Knocknagoshel,
Do.	- :	- 3	3-	Ardfert and Castlemaine.
Do.		-	Dingle	Castleisland and Kilfiynn. Anniscaul, Cloghane, Ballyferriter
ork			Skibbereen	and Castlegregory.
Do.			Bantry	Leap, Toormore and Ballydehob. Ballingeary, Ahakista, Kealkil,
Do.	٠		Castletownbere .	Drimoleague and Glengariff.  Adrigole, Eyries, Allihies and Lauragh.

The following return shows the number of cases treated under the scheme by each officer at the various dispensaries and at farmers' residences:—

County	Headquarters	No. of dis- pensaries	No. of cases treated at dis- pensaries	No. of visits paid to residence of small farmers	
Donogal   Donogal   Do.   Do	Bundoran Falcarragh Dunkineely Manorhamilton Drumshambo Ballina Swinford Westport Belmuillet Boyle Castlerea Galway	92 01 15 4 4 15 4 15 7 16 02 03 01 7 4 4 4 15 4 15 4 10 10 10 10 10 10 10 10 10 10 10 10 10	122 43 369 217 45 573 388 242 239 129 239 239 220 433 29 29 214 48 228 239 214 214 48 228 239 214 44 48 228 214 44 45 228 239 214 47 47 47 47 47 47 47 47 47 47 47 47 47	66 33 394 288 37 255 121 188 200 166 72 32 421 10 20 20 421 11 48 32 67 11 14 61 62 77	
	TOTALS .	104	6,309	3,163	

The scheme as it becomes better known is being availed of more and more by the small farmers in the congested districts, though in one or two cases the people have not yet realised the benefits to be derived from taking advantage of the opportunities offered. It is hoped to extend the scheme, if funds so permit, that the cheap veterinary advice provided by the scheme may ultimately be available in every district in those counties scheduled as congested.

The experimental scheme in county Wexford was continued during the year with satisfactory results.

The scheme for encouraging improvement in poultry-keeping in 1910-11 (particulars of which appear at POULTRY-KEEPING, page 257 of the Appendices) was put into operation in every county in Ireland, with the exception of county Dublin. Thirty-five instructors were appointed, seventeen of whom were also employed for

portion of the year in giving instruction in connection with the butter-making scheme.

With a view to improving the breeds of poultry, the committees again offered premiums for the distribution from approved poultry stations of sittings of hen, duck and goose eggs, and also for services effected by stock birds at turkey stations. The values of the premiums were the same as in last year, viz., £5 for hen or hen and duck stations, £2 for goose stations, and £2 for turkey stations.

The general duties of the instructors under the scheme included the delivery of lectures, the holding of classes, the visiting

of farms, and the supervision of poultry stations.

The Department impressed upon the committees the necessity of the instructors paying particular attention to the work of visiting the homes of poultry-keepers, inspecting the poultryruns, and giving practical advice on poultry matters generally. As a result of the attention paid to this part of their work the

instructors made throughout the year 14,225 visits.

The scheme of tutorial and practical classes was put into operation by 26 county committees, viz., Armagh, Carlow, Cavan, Clare, Cork, Donegal, Galway, Kerry, Kildare, Kilkenny, King's, Londonderry, Longford, Louth, Meath, Monaghan, Queen's, Roscommon, Sligo, Tipperary, N.R., Tipperary, S.R., Tyrone, Waterford, Westmeath, Wexford and Wicklow. The instructor, when engaged holding classes at a particular centre, makes it her duty to visit the poultry-runs at the homes of the pupils, and gives advice as may be required. The syllabus of the subjects dealt with at these classes, and the list of equipment required, are set forth in detail in the scheme printed in the Appendices at page 262. During the past year the instructors delivered 531 lectures, at which there was an average attendance of 54 persons, and held 1,552 classes with an average attendance of 13 pupils.

The following table shows the progress of the work under this scheme during the past ten years:—

Year	Counties		No. of Classes	Distr	f Egg- buting tions	Eggs Distri- buted	No. of Turkey	No. of Goosé
		held	held	Hens only	Hens and Ducks	Dozens	Stations	Stations
1901-2 1902-3 1903-4 1904-5 1905-6 1906-7 1907-8 1908-9 1909-10 1910-11	12 22 32 30 30 30 30 31 32 32	1,134 2,231 3,185 2,662 2,024 1,367 895 677 588 531	629 892 1,474 1,402 1,522 1,552	36 220 346 333 315 303 305 328 337 310	46 129 180 205 233 261 282 274	4,108 18,040 40,857 49,191 52,409 51,378 53,919 63,471 66,187 65,790	181 328 404 460 467 497 532 589	68 92 130 140

The keeping of egg records by means of tmp nests, which was commenced during 190-10, was continued in the past year at 24 selected egg distribution stations. The truncate and other requisities were supplied by the Department Instead other requisities were supplied by the Department face charge in the first instance on the understanding that the station-holders would keep for a period of two years a continuous record of the number of eggs laid by each hen from a given number of binds of approved nure breefs.

The following table contains particulars of the amounts paid by each county committee for premiums under the poultry scheme, 1910-11:—

County	I	n and buck stions	Goose		Turkey Station		
Antrim Armagh, Cavin, Cavin, Clare, Clare, Covin, C	22: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:	96 13 9 90 10 0 90 0 0 908 2 6 39 12 6 64-11 3 80 0 0 6 49 3 2 24 9 3 65 0 49 3 9 11 7 39 16 10 9 11 7 15 0 0 0 16 10 0 0 17 10 0 0 17 10 0 0 17 10 0 0 17 10 10 10 10 10 10 10 10 10 10 10 10 10	10 6 18 1 5 33 20 16 	s. d. 0 0 0 0 0 0 5 6 6 8 0	60 10 50 16 1 74 1 40 8 8 8 8 19 47 1 20 44 23 1 32 26 6 33 33 34 460 415 415 415 415 415 415 415 415 415 415	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Totals, 1911,	1	884 10 1	1	2 2	1,157		0
,, 1910		026 19 899 19	3 273 6 254	16 8	1,048		0
" 1909 " 1908	, , , ,	615 17			903		0

The regulations of the scheme of instruction in horticulture and bee-keeping are printed in the Appen-HORTICULTURE dices, page 269.

AND BEE-KEEPING. The scheme was adopted in 1910-11 by every county, except county Leitrim.

Thirty-nine instructors were employed during the year, of which thirty-two were qualified to give instruction in horticulture and bee-keeping, four were qualified in horticulture only. and three in bee-keeping only. In three counties separate instructors were employed for horticulture and for bec-keeping respectively.

Although an instructor's duties under this scheme are confined mainly to giving practical demonstrations in gardens, orchards, &c., in the planting, pruning, grafting, and spraying of trees, &c., they also include the delivery of lectures to a limited extent, During the year 207 such lectures were given at which there was an average attendance of 41, and the number of visits and demonstrations at gardens, orchards and selected plots amounted to

31,273... The number of demonstration plots established in 1911 in connection with this scheme was 302 as compared with 286 in 1910. These plots are under the direct supervision of the horticultural instructor, and are periodically inspected by the Department. The plots are, as a rule, carefully cultivated by the holders, and are of considerable educational value in showing improved methods in the growing and cultivation of vegetables,

fruit, and flowers.

It is gratifying to note that cottagers and others continue to take full advantage of the arrangements under which county committees purchase trees, etc., and re-sell them to approved applicants at cost price; and, as a result, tree-planting has been carried out on an extensive scale. As in previous years, the Department inspected the stocks of the principal Irish nurseries, and notified the several county committees in regard to the classes of trees approved at each nursery. The committees were thus in a position to supply reliable trees and plants to applicants.

The following figures indicate the extent to which trees were distributed under the foregoing arrangement during the year ended 30th September, 1911:-

Apples,		 30,392
Pears,		 934
Plums,		 1,159
Damsons,		 17
Cherries		 59
Gooseberries		 7,261
Currants,		 5,947
Raspberries,		 6,102
Other fruits		 3,407
Forest trees		 129,606
Other trees and	shrubs.	 181.085

The returns submitted to the Department in respect of 88 counties show that 279 cases of foul brock were dealt with by the various local author-PREVENTION (IBILAND) ACT, the county committees of agriculture, with the consent of the respective county committees of agriculture, with

cils, made provision for the payment of compensation to bee-keepers for bees, appliances, &c., compulsorily destroyed under the provisions of the Act. Payment of compensation amounting in all to \$31 17s. 6d. were recommended in fifteen counties.

County					nount allo for compensat	
ULSTER :						
Antrim.					15	
Armagh,					10	
Cavan,					20	
Donegal,					15	
Down,	- 1				30	
Fermanagh,		- 1	- 1		10	
Londonderry.			- 1		-	
Monaghan,			- 1	- 1	10	
Tyrone,			- 1	- 1	10	
Lyrone,		•			10	
MUNSTER:-						
Clare,					10	
Cork.	•		•		20	
Kerry,		•			- 5	
Limerick,	•				9	
Tipperary, N	ró .		- :	•	10	
Tipperary, S.	D		- 1		9	
Waterford.	14.,					
wateriord,			•		_	
Leinster :						
Carlow,						
Dublin,	•					
Kildare,					10	
Kilkenny,					20	
King's,		•			5	
Longford,	•		•		1	
Louth,					10	
Meath.					20	
					20 5	
Queen's, Westmeath,					5	
Wexford,					25	
Wicklow,					3	
CONNACHT :						
Galway,					20	
Leitrim.	1				5	
Mayo,					5	
Roscommon,	:					
Sligo.	:	:	•		- 5	

TOTAL, £322

The committees of twenty-seven counties adopted the scheme of instruction in butter-making during the BUTTER-MAKING. past year, and employed thirty-three instructors. Of these instructors, seventeen

structors. Of these instructors, seventeen were also engaged during portion of the year giving instruction in poultry-keeping.

The committees of the counties Antrim, Armagh, Dublin, Fermanagh, Limerick and Sligo did not put the scheme into operation during the year 1911.

During the year the instructors made 6,510 visits to private dairies, delivered 152 lectures, and conducted 3,282 dairy classes in 260 centres, with an average attendance of eight pupils.

The following statement shows the number of counties in which instructors have been employed during each of the past ten years:—

1901-2,		 	4
1902-8,		 	11
1908-4,	_	 	18
1904-5,		 	22
1905-6,		 	24
1906-7,		 	24
1907-8,		 	24
1908-9,		 	26
1909-10,		 	26
910-11.		 	27

 $\Lambda$  copy of the scheme will be found in the Appendices, page 267.

The scheme of prizes for cottages and small farms (printed in the appendice, page 248), was put into prizes for cottages and prizes and prizes for cottages and prizes for cottages and the exception of Antrim, Armagh, and Carsasalla Farms. In the exception of Antrim, Armagh, and Carsasalla Farms, in districts other than those of as judges in districts other than those of agriculture.

The Department were glad to observe entries from labourers in the cottage section are increasing each year.

1

The following table shows the number of administrative counties in which the scheme was in operation, the number of holdings entered for competition each year, and the number and the total value of the prizes awarded during the past ten years:—

Y	Year		No. of Counties	No. of Entries	No. of Prizes Awarded	Amount Expended in Prizes
1000						£
1902,			8	*	588	1,046
1903,			19		1,066	1,972
1904,		- 4	25	3,065	1,534	2,837
1905.			27	3,146	2,008	3,476
1906,			31	3,975	2,551	4.035
1907,	- 1	.1	31	3,905	2,501	4.287
1908,			30	3,819	2,417	4,179
1909.			28	4,004	2,507	4,796
1910.			26	4,069	2,486	4,632
1911,			30	4,600	2,758	5,048

Accurate figures cannot be given.

The committees of counties Cork and Meath again offered prizes for the best-kept tillage farms. There PRIZES FOR Were 130 entries received in county Cork and twenty in county Meath for the prizes to the value of £519 10s. and £195 respective.

tively.

The value of the prizes offered and awarded, etc., since the initiation of the scheme in 1907, is set forth in the following table:—

County	Year	Value of Prizes offered	No. of Entries received	Amount expended in Prizes
Cork, .	1907 1908 1909 1910 1911	£ 468 468 444± 454± 519±	124 210 187 126 130	£ 461 468 440 444 —*
Meath, .	1908 1909 1910 1911	195 195 195 195	32 23 21 20	195 195 195 195 195

\* Not yet available.

The pioneer lectures on veterinary hygiene were continued during the year. Some sixteen counties were PIONEER LECTURES. visited by the lecturer, from twelve to twenty-four lectures being given in each county.

## (b.) Improvement of Live Stock.

With the exception of counties Sligo and Tyrone this scheme (see Appendices, page 280) was adopted in every county. In the case of county Tyrone, the committee provided funds for the awardine of premiums to stallions.

The following table shows the number of stallions accepted for entry in the Department's register for each year since 1901:—

Year		Thorough- bred	Irish draught	Half- bred	Clydes- dale	Shire	Total
1901, .		97	_	_	23	8	128
1902, .		111	-	-	35	16	162
1903, .	-	123	-	-	48	21	192
1904, .	-	140	-		48	23	211
1905, .		154	_	-	49	26	229
1906, .		163	_	-	50	26	239
1907, .		161	-	38	51	26	276
1908, .		156	_	50	52	24	282
1909, .		153	-	61	57	25	296
1910, .		167	_	83	63	27	340
1911, .		184	13	87	63	23	370

Particulars of the assistance rendered by the Department by means of loans and subsidies for the purchase of stallions during the past ten years are given in the following table:—

Year	Thore	ough- ed	Iri Dras		Half	-bred	Clyd	esdale	Sh	ire	To	tal
	Loans	Sub- sídies	Loans	Sub- sid(es	Loens	Sub- sidies	Loans	Sub- sidies	Loans	Sub- sidies	Loans	Sub- aidies
1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911,	1 6 11 9 7 4 5 15 8 20	5 6 12 7 8 3 3 9 5 15		HIIIIIIII			1 1 1 1 3 2 1 3	3 1 1 1 1 - 3 1 - 1	- - - - - - - - - - - - - -	1 1 - 2 -	5 9 12 11 8 6 21 31 26 34	9 7 13 9 9 4 18 17 21 26

The scheme of loans for the purchase of stallions will be found in the Appendices, page 243.

The arrangements made for the selection of marcs for nominations were similar to those adopted in previous years.

The following table shows in respect of each of the past ten years (1) the total number of local exhibitions held for the purpose, (2) the number of mares selected, (3) the amount allocated for nominations, and (4) the amount actually expended:—

	No. of	Nu	mber of	Nominati	ons of M	ares	1	
Year	Local Exhibi- tions of Marcs held	To The- rough- bred Stal- lions	To Irish Draught and Half- bred Stal- lions	To. Shire Stal- lions	To Clydes- dale Stal- lions	Total	tions	Amount ex- pended for Nomina- tions
1902,	170 180 210 217 227 227 227 223 223 219 229	1,580 1,651 2,010 2,436 2,624 2,325 2,257 1,992 1,832		235 285 273 281 241 218 214 198 220	528 658 761 758 743 695 762 733 760	2,343* 2,594* 3,044* 3,475* 3,608* 3,533* 3,778* 3,568* 3,465*	6,933 8,371 8,687 8,838 8,497 8,642 7,841	£ 5,831 6,234 7,158 8,122 8,324 8,064 8,092 7,490 7,392

\* Number actually paid for. † Estimated number to be paid for.

‡ Estimated amount to be paid, which includes a sum of £3,948
provided from the Development Grant,

The special regulations for 1911 made by county committees in respect of the valuation of farmers eligible to exhibit mares for nominations were as under:—

ULSTE Antrim, Armagh	IR.	Proportion of Nominations allocated	Valuation  Valuation  g	Proportion of Nomina- tions allocated	'aluation Valuation £
Antrim, . Armagh, . Cavan	:	of Nomina- tions allocated	Valuation £	of Nomina- tions allocated	
Antrim, . Armagh, . Cavan	:				
Armagh, . Cavan, .		27. 1. 1.		t	75
Cavan			No limit	3	75
			not to exce	4 650	_
Donegal		1 for farm	ers under f	10 - 1 hetw	oon #10 or
Donegat, .		. A 101 1mm	£20 - 1 bet	ween £20 a	nd £150
Down,		. 1	75	B B	40
Fermanagh,		1	150	ī	50
Londonderry,	:	1 gader :	£20; } betw	een £20 an	d £40;
Monaghan, .		- 240 am	100	- 8	30
Tyrone,	:		1.50		-
		1			
MUNST	ER.		200	- 8	50
Clare,			150	8	30
Cork, W.R., E.R.,		1 1	200	I	50
Kerry, .		. Valuation	not to exce	0013 5	50
Limerick,			not to exce		
Tipperary, N.	B	. 1	125	1 2	50
" SI	i., .	. 1	No limit	1 1	80
Waterford,		1 1	200	1	75
LEINS'	PED				
		. 1	150		50
Dublin, .		. 8	300	- 4	100
Kildare.	. :	: 8	No limit	1 1	100
Kilkenny,	. :	1	100	1 1	50
King's, .		. 1	75	3	40
Longford,		. 1	300	\$	50
Louth, .		. 1	No limit	1 1	50
Meath, .		1 1	150	1 5	50 40
Queen's, Westmeath.		1 1	100	1	50
Westmeath, Wexford.			No limit	1 2	50
Wicklow,	: :	. 1	No limit	olizaja elis elis elis elis elis elis elis elis	50
CONNA	CHT.	1			
Galway,		. 1	100	2	30
Leitrim.		. 1	No limit	1 8	20
Mayo, .		. 3	30	3	. 15
Roscommon, Sligo,		. 1	50 not to exc	1 1	30

The following table shows the extent to which the scheme was availed of by farmers in each of the counties concerned:—

Province and County	Number of Local Exhibi- tions arranged by	free	Veter	of Mares by Judg nary Surj se nomina	ge and
,,,,,,	County Commit- tee	nomina- tions	Se- lected	Re- served	Total
ULSTER.					
Antrim	. 6	658	260	68	328
Armagh,	. 3	166	71	10	81
Cavan,	. 9	447	134	48	182
Donegal,	. 11	504	189	54	241
Down,	. 11	443	206	50	256
Fermanagh, .	. 6	231	85	25	110
Londonderry, .	. 4	413	134	38 37	172
Monaghan,	. 6	338	140	37	177
Tyrone,					
Totals for Ulster,	. 56	3,200	1,217	330	1,547
MUNSTER.		926	297	69	366
Clare,	. 18	1.840	371	165	536
Cork,	. 18	972	285	116	401
Kerry,	. 8	465	283	77	300
Limerick,	. 8	605	208	34	242
Tipperary, N.R.,	. 8	904	452	51	503
Waterford, S.R.,	. 6	480	198	41	239
Totals for Munster,	. 60	6,192	2,034	553	2,587
LEINSTER.		Ojie			-,
Carlow,	. 4	190	45	28	73
Dublin	. 12	427	922	55	277
Kildare,	. 5	280	88	38	126
Kilkenny,	. 8	516	156	52	208
King's,	. 6	261	75	49	117
Longford	. 3	260	87	25	112
Louth,	. 3	178	62	15	77
Meath,	. 8	417	172	38	210
Queen's, 1	. 5	326	112	36	148
Westmeath.	. 8	492	126	50	176
Wexford	. 4	515	223	60	283
Wicklow,	. 7	449	208	67	275
Totals for Leinster,	. 73	4,311	1,576	506	2,082
CONNACHT.					
Galway,	. 11	659	248	40	288
Leitrim.	. 7	226	90	39	129
Mayo,	. 9	614	178	87	265
Roscommon.	. 9	396	140	40	180
Sligo,	. 4	188	34	9	43
Totals for Connacht,	. 40	2,083	690	215	905

There were 15,786 mares inspected (i.e., more than 46 per cent. over the number competing in 1910), of which 8,054 (or 47 per cent. more than in 1910) were passed by the judges as eligible for nominations, but of these the veterinary surgeons rejected 938 as unsound.

Over 70 per cent. of the nominations awarded were given to mares six years of age and under.

With the exception of counties Dublin, Longford, Limerick and Meath, the county committees fixed the nomination fee at £2.

The experimental scheme adopted by the Tyrone county committee two years ago was continued on the same lines in 1911. The committee selected twelve registered stallions standing for dealers of the property of the same stalling for each of the throughbred sires in consideration of serving forty marcs, and 280 for the other breads for the service of forty-five marcs each. The marcs, which were the property of farmers in the country, each of whose valuation did not exceed of farmers in the country, each of whose valuation did not exceed the same stalling for the same s

The service fee payable in the case of thoroughbred sires was £1 per mare and in all other cases 10s. A total of 488 mares were served under this special scheme, viz.: 61 by thoroughbred stallions and 422 by the others.

The amounts paid in 1911 to stallion owners were as follows:—

£ s. d.

Full premium for one thoroughbred stallion . 40 0 0

Part premium for one thoroughbred stallion . 21 0 0

Full premiums for six clydesdale stallions ...180 0 0

Part premium for one clydesdale stallion  $\dots$  28 0 0

Full premium for two shire stallions .. 60 0 0

Part premium for one half-bred stallion ... 13 6 8

£342 6

The following table indicates the extent to which the Department made special provision in 1911 for the congested areas by

placing stallions in remote districts, at a nominal service fee:-

WE C	V County			Breed of St	allion	Place of Location	
Donegal			٠.	Clydesdale,			
Do.,		:	:	do Half-bred	:	1	Dungloe Arranmore Island.
Galway,				*Welsh Cob,			Carnakelly.
Do., Kerry,		:		Half-bred, . Thoroughbred.	:		Carraroe. Kenmare.
Do.,				*Welsh Cob,			Sneem.
Do., Leitrim,		:		* do., . Pony, .	:	- :	Glencar. Mobill.
Mayo,		÷	- :	Half-bred, .			Achill Sound.
Do.,		:	:	do., .			do. Belmullet.
Do.,	:	:		*Welsh Cob.	:	- 1	Clare Island.

Of the colts purchased in previous years fifteen were registered as stallions during the year under review—the remainder having been sold as geldings.

Development Grant.—In November, 1910, on the recommendation of the Development Commissioners, His Majesty's Treasury decided to place at the disposal of the Department additional funds for the purpose of enabling them to extend their existing the property of the property of the property of the property of £4,000 in respect of the financial year ending 81st March, 1911, and intimated that a sum of £10,000 would be given to the Department for a like purpose during the financial year 1911-12. This latter sum was roughly apportioned as follows:—(a) £3,000 for additional nominations of marcs; and (c) £2,000 for an Irish Draught Horse scheme.

(a) The Department applied part of the foregoing grant, supplemented by aid from the Rodowment Fund, towards the cost of purchasing stallions and colts during the agricultural year ended 30th September, 1911, as follows: "Up to the 31st March, 1911, the sum of £4,086 was spent on the purchase of thirteen sires, and between the 1st April and 30th September, and between the 1st April and 30th September, and the property of the 1st April and 30th September, and the sent part of the 1st April and 50th September 15, 25, were proceeding £1,595, were properly belong to the agricultural year 1911-12 and they will be accounted for in the Report for that year.

(b) Additional nominations, of the value of £2 and £3 respectively, were provided in thirty-one counties to the extent of nearly fifty per cent. of what was already available from the committees' joint funds. In the case of county Tyrone the proportion granted to that county was applied in extending the existing experimental scheme of premiums for stallions, and in country Sigo, which had not adopted a horse scheme in 1910 or 1911, the amount of the grant was calculated.

<sup>\*</sup> Formerly the property of the Congested Districts Board.

on the amount the committee had allocated for horse breeding in 1909. Out of £4,000 carmarked from the Development Grant for the purpose of awarding extra nominations, the Department allocated amongst the various county committees a sum of £3,948; and this, together with the sum of £7,850 (which includes £290 in county Tyrone for premiums to stallions), already provided from the joint fund, represented a total of £11,798 administered by the various county committees, during the past year, on horse-breeding in Ireland, out of which thirtytwo county committees awarded a total of 5,583 nominations, and the Tyrone committee expended £342 6s. 8d. on premiums to twelve registered stallions. It would appear, from the reports furnished by the judges appointed by the Department to select mares for the foregoing nominations that, without having to reduce their usual standard, they experienced no difficulty in selecting a sufficient number of mares of the required merit to take up the full number of nominations available in each county. (c) A scheme for encouraging the breeding of Irish draught

horses, for which a sum of £2,000 was set aside, was put into operation early in the year. (For particulars of scheme see page 286 of the Appendices.) The Department fixed sixty centres for exhibitions of mares, and in all 5,040 mares were shown at these centres. Of this number, 264 were selected as eligible for

prizes and for registration.

During the course of the inspection of mares, 109 stallions purporting to be of the Irish draught type were submitted by their owners to the Department's judges, but of these only seven were reported as suited for the requirements of the scheme, Six of the stallions already on the Department's register were also approved as Irish draught sires, thus making in all thirteen registered stallions available for the service of Irish draught mares. Two hundred and forty-four of the 264 mares selected were served during the season by these stallions. One of these sires stood for service in each of the counties :- Carlow, Clare, Cork, Down, Kildare, Limerick, Monaghan, Queen's, Tipperary, Westmeath, and Wexford, whilst two were available in county Kilkenny.

Arrangements were made by the Department with eleven of the stallion owners to keep the mares during service and for the usual number of trials afterwards. All expenses, i.e., service fees, carriage of mares to and from stud, and keep of mares were defrayed by the Department. In order to provide for two districts, viz.; one in the north and one in the south, where it was impossible to find Irish draught stallions of the proper type, the Department purchased two of the registered Irish draught stallions and located them in charge of their own grooms, at Clones and Limerick.

In order to provide for poor districts in which donkeys are largely used, the Department located fortynine stallion asses with caretakers, who were ASSES. held responsible for the proper care and treatment of the animals while in their possession.

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The asses were placed as follows:-

County	District in which Located	County	District in whic Located		
Cavan,	Ballinagh. Skilbenon (two). Skilbenon (two). Othey Macroom (two). Othey Bandoran. Bandoran. Arramore laland. Florenscourt. Craughwell. Abbey. Williamstown Ballygen. Thuam. Athenyamand, Kinvan. Thuam. Athenyamand, Caberdaniel. Valentia Island. Valentia Island. Valentia Island. Valentia Island. Toush georgy. Ballybeigue.	Kerry (contd.) Do., Do., Do., Do., Do., Do., Do., Do.,	Fenagh. Ballinamore. Ballina Westport (two). Killala. Killselly. Iniahturk Island. Donamon. Athleague. Ballaghaderreen. Ballydangan. Kilroesky. Athlone (two). Ballinagore. Dromard. Coolaney.		

This scheme, a copy of which is printed in the Appendices, page 236, was adopted in 1911 by every county CATTLE-BREEDING. committee. The value of the premium for

Dairy bulls was fixed at £10, whilst for other approved breads the committees were empowered to determine the value of the premium between the limits of £10 and £15. In Antim the premium was fixed at £12 for all breeds, in Longford at £15 for shorthoms, and £12 10s for other breeds, and in Rossometh

at £15 for shorthorns, and £12 for other breeds. All the remaining committees awarded premiums of £15 each.

The following table shows the number of loans granted in each

	e past ten			bulls.		
01 411	Year	, curo x	or enc pa		of Loans the purchas	gran e of
	1902.			 	86	
	1903,			 	105	
	1904.			 	122	
	1905.			 	147	
	1906,			 	135	
	1907,			 	181	
	1908,			 	140	
	1909,			 	174	
	1010				900	

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The following table shows by breeds how the bulls sold under the loan scheme in 1911 were distributed:—

County	Short- horn	Aber- deen Angus	Here- ford	Gallo- way	Regis- tered Duiry	Kerry	Total
Carlow, .	. 1	_	_				1
Cavan, .	. 2	_	2			_	4
Clare,	. 8	1	_	_	-	_	9
Cork, .	. 12	4	E	_	1	1	18
Donegal,	. 14	11	_	4	_	_	29
Down, '.	. 3	1	_	-	_		4
Fermanagh,	. 2	1		_	-	_	3
Galway, .	. 12	2	3	4	_	_ 1	21
Kerry, .	. 7	20	_	_			32
Kildare,	. 2	1	_	-		_ 1	3
Kilkenny,	. 10	1	-		_	Ξ	21 32 3 11
King's,	. 4	_	1	_	l  –	_	5
Leitrim, .	. 1	5	1	-	_	-	7
Limerick,	. 1	_	-	_	1	_	2
Longford,	. 1	_	_		_	_	1
Louth, .	. 1	_	_	_	. 2	Ξ-	3
Mayo, .	. 6	. 9				- 1	15
Menth,		-	1		. —		1
Monaghan,	. 1	_	_	- 1		-	1
Queen's, .	. 4	3	_	_	_	_	- Ŷ
Roseommon,	. 3	1	2	-	_		6
Sligo, .	. 1	6	-	=	_	_	7
Tipperary,		4	1	_	2	-	10
Tyrone,	. 1	-	_	_	_	- 1	1
Waterford, Westmesth,	. 1	1	I -	! = !	_	-	2
Westmeath, Wexford,	- 3	·	1		_		1
Wieklow.	3 4	1	_		-	_	4
Wiektow,	. 4	1					5
	108	73	12	- 8	6	6	213

During the past three years the county committees allocated for, and actually expended upon, premiums for bulls the following amounts:—

 Year
 Amount allocated
 Amount expended

 1909,
 £13,287
 £11,967

 1910,
 13,302
 12,221

 1911,
 13,520
 12,613\*

Provision was made by the committees for the award of 929 premiums in 1911. There were 715 bulls which held premiums in 1910 eligible to compete for premiums in 1911. Local exhibitions were held at 434 centres, at which 535 of these 715 animals were shown and examined by the Department's impressions. Of this number, 546 were considered suitable for the contract of the contract of

the balance of the premiums available.

Ninety-three per cent. of the premiums provided for were

actually awarded. In Ulster, 98 per cent.; in Leinster, 96 per cent.; in Connacht, 92 per cent.; and in Munster, 81 per cent. of the total number of bulls for which provision was made were procured.

The following table shows, by provinces and counties, the distribution of premium bulls in 1911:—

		uns m 1.			
Province and	County I	Number of Premiums provided y County committee for 1911	Number of Bulls continued from 1910	Number of Bulls provision- ally awarded Premiums for first time in 1911	Total Number of Bulls approved for Premiums in 1911
Ulster: Antrim, Armagh, Cavan, Donegal, Down, Fermanagh, Londonderry, Monaghan, Tyrone.		63 31 28 37 67 26 34 22 50	31 11 22 19 38 9 17 8 28	31 20 6 18 28 17 15 14 21	62 31 28 37 66 26 32 22 49
Totals for Ulst	ier.	358	183	170	353
MUNSTER: Clare, Cork, Kerry, Limerick, Tipperary (N.R. Tipperary (S.R. Waterford,	.),	20 65 30 35 17 17	14 37 11 7 11 10 7	5 20 15 4 6 7	19 57 26 11 17 17
Totals for Mu	nster, .	194	97	60	157
Leinster Carlow, Dublin, Kildare, Kilkenny, King's, Longford, Louth, Mesth, Queen's, Westmesth, Wesford, Wicklow,		11 15 29 31 18 9 16 31 17 30 27	8 12 11 19 12 7 7 7 22 10 23 16 14	2 3 13 12 6 2 5 9 7 7 7	10 15 24 31 18 9 12 31 17 30 27 18
Totals for Lei	inster, .	252	161	81	242
CONNACHT: Galway, Leitrim, Mayo, Roscommon, Sligo, Totals for Co	ennacht.	37 15 26 23 24	19 11 16 17 24	11 4 9 4 —	30 15 25 21 24
1			- 0.		7.00

TABLE showing the ages and breeds of bulls selected for and awarded premiums under the scheme as administered by the county committees during each of the past ten years:—

,		Ag	tes	1.		Total No. of			
Year	Year- lings	Two- year- olds	Three- year- olds	Four- year- olds	Short- horn	Aber- deen Angus	Here- ford	Other Breeds	Bulls awarded Pre- miums
1902, .	292	132	-		337	52	26	. 9	424
1903, .	402	216			473	78	58	9.	618
1904, : .	-334	315	85	_	557	99	63	15	734
1905,	276	299	186	34	599	104	68	24	795
1906, .	- 302	251	196	72	617	117	67	20	821
1907, .	- 282	- 281	178	72	604	122	61	26	813
1908, .	268	267	205	60	600	123	61	16	800
1909,	295	- 247	200	70	579	134	78	.21	812
1910,	-324	- 285	164	65	578	159	75	26	838
1911, .	-305	- 310	202	50	585	176	75	.31	867*

<sup>\*</sup> Number of premiums provisionally awarded.

The following table shows how the premiums were distributed among the breeds selected by the county committees to stand for premiums in 1911:—

County	Short- horn	Aber- deen Angus		Gallo- way	Kerry	Regis- tered Dairy	Totals
Utsrne: Antrim, Armagh, Cavan, Donegal, Down, Fermanagh, Londonderry, Monaghen, Tyrone,	55 30 20 23 53 14 27 22 39	1 3 11 13 11 1 1 - 8		3 - 3 - - - 1		3 - - - 1 4 - 1	62 31 28 37 66 26 32 22 49
Totals for Ulster, .	283	49	5	7	-1	9	353
MUNETER: Clare, Cork, Kerry, Limerick, Tipperary (N.R.), Tipperary (S.R.), Waterford,	16 45 7 7 11 8 6	3 11 17 — 4 3 4			= -2 = = =	-1 -4 -3 -	19 57 26 11 17 17
Totals for Munster, .	100	42	5	-	2	8	157

The following table shows how the premiums were distributed among the breeds selected by the county committees to stand for premiums in 1911 (continued):—

County	Short- horn	Aber- deen Angus	Here- ford	Gallo- way	Kerry	Regis- tered Dairy	Total.
LEINSTER:							
Carlow.	. 4	4	· — '	_	_	2	10
Dublin,	. 7	4	4	_	11111111111	_	15
Kildare,	. 18	3	3	_	i —	_	24
Kilkenny, .	. 29	2	-	Ē	_	-	. 31 18
	. 12	3	3	_	_	_	18
	. 3	3	3	_	_		12
	. 8	2	2 8	=	=	_	31
	. 20	3	3		_		17
	10	4	23	=	_	_	30
		2	23	=		_	27
Wexford, Wicklow,	25	9		_		_	18
Wicklow,							_
Totals for Leinster,	151	40	49	_	_	2	242
Connacht: .							
Galway,	. 22	2	5	1	-	-	30
Leitrim,	. 3	11	1	_	=	Ξ	15
	. 10	13	I	2	-	_	25 21
	. 7	5	9	-	1 -	-	21
Sligo,	. 9	14	1	_			24
Totals for Connacht,	. 51	. 45	16	3	_	-	115

The following is a summary of the regulations for 1911 made by each county committee in regard to qualifications of cowowners and amount of service fee:—

Province and County	Qualification of cow owners as to valuation and service fee as fixed by County Committees
Ulster.	
Antrim	. 100. 1/- fee in all cases.
Armagh, .	. 20 for 1/- fee. Unlimited for 2/6, fee.
Cavan,	. 50. 1/- fee in all cases.
Donegal,	£150. In Congested Districts three-fourths of
	the prescribed number of cows to belong to farmers under £20 valuation. 1/- fee in all
Down,	. £40 for 1/- fee. £75 for 2/6 fee.
Fermanagh.	. £15 for 1/- fee, £100 for 2/6 fee.
Londonderry, .	No limit. 1/- fee in all cases.
Monaghan, .	No limit, 1/- fee in all cases. £40 for 1/- fee. £100 for 2/6 fee.
Tyrone,	. £50 for 1/- fee. £100 for 2/6 fee.
MUNSTER.	1
Clare,	£75. 1/- fee in all cases.
	£150 in West Riding and £200 in East Ridings 1/- fee in all cases
Kerry,	£20 for 1/- fee £100 for 2/6 fee.
Limerick, .	£30 for 1/- fee. Unlimited for 2/6 ree.
Tipperary, N.R.,	£30 for 1/- fee. £100 for 2/6 fee.
Tipperary, S.R.,	. £30 for 1/- fee. £80 for 2/6 fee.
Waterford, .	1/- 700 in an eages 120 for 1/- fee ± 100 for 2/6 fee. ± 230 for 1/- fee. Unlimited for 2/6 fee. ± 30 for 1/- fee. ± 100 for 2/6 fee. ± 30 for 1/- fee. ± 150 for 2/6 fee. ± 50 for 1/- fee. ± 150 for 2/6 fee.
LEINSTER.	
Carlow,	£100 for 1/- fee. £200 for 2/6 fee.
Dublin,	No limit. 1/- fee in all cases.
Kildare,	£75 for 1/- fee. £150 for 2/6 fee. £50 for 1/- fee. £100 for 2/6 fee.
Kincele,	£100. 1/- fee in all cases.
Longford	£100. 1/- fee in all cases.
Louth	No limit. 1/- fee in all cases-
Moath	\$50 for 1/s fee. \$100 for 2/6 fee.
Oneen's	£50 for 1/- fee. £100 for 2/6 fee. £40 for 1/- fee. £100 for 2/6 fee.
King's, Longford, Louth, Meath, Queen's, Westmeath,	£50 for 1/- fee. £100 for 2/6 fee.
Wexford,	£100. 1/- fee in all cases.
Wicklow,	£100 for 1/- fee.
CONNACHT.	
Galway,	£30 for 1/- fee. £100 for 2/6 fee.
Leitrim,	£30 for 1/- fee. £100 for 2/6 fee. £20 for 1/- fee. Unlimited for 2/6 fee.
Mayo	£15. I/- fee m all cases.
Rescommon,	£30. 1/- fee in all cases.
Sligo,	£25. 1/- fee in all cases

The Department supplemented the cattle-breeding scheme, as administered by the committees of counties containing congested areas, by placing a number of bulls for service in congested districts. Particulars of the terms on which such bulls are placed are given at pages 48 and 49 of the Ninth Annual Report.

The following figures show the extent of the supplemental aid given by the Department in this manner during 1911:—

County	No. of Special Premiums in 1911	No. of Bulls sold at reduced prices during 1911	No. of Bulls sold at reduced prices in pre- vious years and retained for service in 1911	Total
Clare.	. 7		_	. 7
Cork.	. 13		4	17
Donegal, .	38	-	7	45
Galway, .	. 18	11	17	46
Kerry,	38	-	6	44
Leitrim,	. 12	-		12
Mayo,	. 23	11	13	47
Roscommon,	. 9		- "	9
Sligo, .	. 10	= == '		10
Totals.	. 168	22	47	237

The figures for each year since 1904, when the Department's operations were first extended to congested districts, are given in the following table:—

Year			Number of Special Premiums granted by the Depart- ment for Congested Districts	Number of Bulls sold at reduced prices to resident in Congested Districts		
1904,			. 8	_		
1905,			. 33	-		
1906.			51	25		
1907,			81	30		
1908,			95	31		
1909,		٠.	106	27		
1910,			133	35		
1911,			168	22		

There were thus, in addition to 867 bulls standing under the county schemes, 287 animals placed under special arrangements, making a total of 1,104 bulls (i.e., 51 more than 1910) standing in Ireland under the cattle-breeding scheme in the season 1911.

Since the inception of this scheme in 1906, 685 cows have been accepted as suitable for entry in the register REGISTRATION OF of dairy cattle. Of this number, 53 are DAIRY CATTLE. of the Kerry type.

In 1911, 561 cows (including 90 Kerry cows) were entered for inspection with a view to provisional selection for registration. Of these, 500 (including 14 Kerries) were selected, and 9 were not presented for impection. The remaining 49 were rejected as unsuitable. The Department, finding that comparatively few of the cows offered for registrations of the constant of

A copy of the scheme is printed at page 282 of the Appendices.

The regulations of the swine-breeding scheme are printed at page 240 of the Appendices.

Boars which held premiums for the first time in 1910 were eligible for inspection with a view to being swine breeding. awarded second year premiums in 1911. Such boars were inspected at the same centres as bulls and all those presented for inspection, viz. 164,

were passed as suitable for premiums; of these, 161 stood for service in 1911. The county committees elected applicants to take up the balance of the premiums. The Department during the past year, on behalf and at the

request of applicants selected to keep premium boars, purchased from Irish breeders 161 boars suitable for the purposes of the scheme.

The following is a summary of the operations of the scheme during the past ten years:—

Year	Money allocated by County Com- mittees for Boar Premiums	Money expended by County Com- mittees for Boar Premiums	Number of Premiums awarded by County Committees	of Special Premiums	
1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910,	£ 2,395 2,685 2,530 2,070 1,740 1,588 1,618 1,670 1,700 1,694 1,798	£ 752 726 879 624 840 1,141 1,171 1,146 1,252 1,419 1,663*	151 154 181 129 205 269 287 281 310 336 397*	10 23 51 49 49 80 98*	151 154 181 129 215 292 338 330 359 416 495*

Estimated

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The number of premiums awarded by each county committee was as follows:—

County	No. of First year pre- miums	No. of Second year pre- miums	Large White Yorks	Large Blacks	White Ulster	Total
Ulster.	7	4			11	11
Antrim,	10	3	_	4	9	13
Armagh, · · ·		4	1	-	13	14
Cavan,	7	4	2	1	8	11
Donegal,	13	2	-	i	14	15
	5	2	2	1 -	5	7
Fermanagh, Londonderry,		6	2	-	11	13
Monaghan,	7	4	-	-	11	11
Tyrone,	10	2	1		11	12
Totals for Ulster,	76	31	8	6	93	107
MUNSTER.		-	-	-	_	12
Clare, · ·	. 9	3	12	_	-	23
Cork,	16	7 9	23 19	_		19
Kerry,	. 10	9	5	_	-	5
Limerick,	5 4	9	13			13
Tipperary (N.R.),	5	. 1	6	_	-	6
Tipperary (S.R.),		1 _	-	-	-	-
Waterford,	-		-		-	78
Totals for Munster,	. 49	29	78	_		10
LEINSTER.	4	1	3	1	1	5
Carlow,	4	-	4		-	4
Dublin, Kildare,	6	3	7		2	15
Kilkenny,	6	9	15	-	_	15
King's,	5	10	14	1	-	8
Longford,	. 6	2	5	3	4	7
Louth.	. 4	3	3	1 1	- 2	5
Meath.	. 2		13		_	13
Queen's,	. 4		13			7
Westmeath, .	11		16		3	24
Wexford,	3		1 5			5
Wieklow,	55	_	92		10	11
Totals for Leinster,		98	- 50			-
CONNACHT.	10	3 14	96		1 -	30
Galway, .	-1 "					. 7
Leitrim,	11			3 -	- 1 -	. 26
Mayo, Roscommon, .	1 1		1:		-	16
Sligo,		5 13	1	5 -	- 1	_
Totals for Connacht	5	3 45	8	8 8	1	91
Totals for Ireland,	. 23	6 16	26	5 21	3 104	39

In addition to the boars in respect of which premiums were payable by the county committees, the Department arranged for the payment, out of their own funds, of premiums for minetyeight boars standing for service in counties containing congested districts.

The following table shows the number of such hoars located in each of the counties concerned during 1911:—

County		No. of First year premiums value £5	No. of Second year premiums value £3	Total	
Clare,		. 5	2	7	
Cork.		. 3	3	- 6	
Donegal,		.1 7	2	9	
Galway, .		. 9	9	18	
Kerry,		. 7	9	16	
Leitrim, .		. 2	_	2	
Mayo,		. 14	10	24	
Roscommon.		. 5	3	8	
Sligo, .	٠	. 6	2	8	
Totals,		. 58	40	98	

The committees of counties Down and Tyrone again made provision for the location of rams in sheepsheep breeding districts in those counties, and for tams respectively.

The following shows the number of rams distributed by the Department at reduced prices to residents in congested districts during the past seven years:—

Year.		No.	of Rams.
1905,	 		15
1906,	 		79
1907,	 		117
1908,	 		96
1909,	 		102
1910,	 		93
1911			100

Provision was made for awarding prizes for sheep at all live stock shows, other than shows confined to horses, subsidised by county committees.

Particulars of the scheme of subsidies to shows will be found in the Appendices at page 246.

snows.

It will be observed from the regulations that show societies applying for grants are required to submit their applications to the county committees early in February each year, and to furnish

details in regard to their financial position and operations. In previous years considerable difficulty has been experienced in obtaining this information, but the Department are pleased to record a considerable improvement in this respect during the year 1911.

No local competitions in poultry-trussing, butter-making, etc., were held in 1911, otherwise than in conjunction with properly organised shows carried out under the auspices of subsidised agricultural societies.

The following table shows the progress of the scheme since its

Year	Subsidies granted to Shows		Labour C (Ploughin	Skilled competitions ag Matches, itc.)	Local Competitions (Poultry Trussing, Butter-making, etc.)		
Number		Amount	Number	Amount	Number	Amount	
1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910,	61 81 121 123 126 147 142 152 146 135	£ s. d. 4,384 4 9 4,472 8 6 6,233 1 11 6,384 14 0 6,295 16 6 6,728 18 7 6,876 15 0 6,697 8 8 6,746 9 0 6,112 16 7 5,948 6 8	16 34 47 59 71	£ s. d.	10 56 50 35 45 58	49 2 6 106 10 10 109 8 5 95 6 8 99 14 1 112 2 0 30 18 6	

## \* Fetimated.

In addition to the foregoing new rison the Department, in 1911, defrayed from their own funds the cost of prizes offered with their Cork. Donegal. Down, Kilkenny, Londonderry and Tyrone in connection with classes for dairy cattle, poultry-trussing and butter-making. The total amount point for this purpose was 1144. The Department also made a pricy over 1144 to 1145 to 114

## (c.) Special Investigations.

Particulars of the revised scheme of field experiments are given on pages 287 to 294 of the Appendices. These AGRICULTURAL experiments are in continuation of the EXPERIMENTS AND scheme adopted in 1902, slightly modified

EXPERIMENTS AND scheme adopted in 1902, slightly modified DEMONSTRATIONS. in 1906, and extended and modified further in 1908, 1909 and 1910. In addition to the experiments included in the scheme, certain special experiments

were continued by instructors in 1910 with new, nitrogenous manures, and nitro-bacterine cultures. Experiments bearing on problems of local interest were also undertaken in many cases.

The number of experiments of each class undertaken in respect of each of the principal crops in 1910 are given in the following table:—

Crop	Manurial Experiments	Variety of Seed Experiments	Other Tests	Total	
-					
Potatoes, .	106	56	39	201	
Turnips,	118	41	_	1.59	
Mangels	67	26		93	
Oats,	41	31	_ 1	72	
Wheat,	1	26	_ 1	27	
Hay,	25			25	
Others,	34	41	19	94	
Totals	392	221	- 58	671	

The results of the experiments were published in the Department's JOURNAL for January, 1910, and afterwards circulated in pamphlet form.

During 1911, 662 experiments and 2,124 demonstrations were laid down by the agricultural instructors. The experimental results are being tabulated and prepared for publication.

In addition to the above-mentioned experiments, special large scale experiments in the growing of wheat, barley and oats were conducted by the Department. Particulars of these are given below.

Experiments in the feeding of live stock were undertaken by instructors in Cork, Louth, and Dublin. Tests in connection with warbles in eattle were conducted by all the instructors. A smearing mixture composed of Archangel tar and parafiln oil was tested. The results obtained were found to be inconclusive, and it is intended to carry out further tests of a similar nature in the coming year.

The third series of manurial experiments with the flax crop commenced in 1909, was continued in 1910. 
FLAX-GROVING. The plots were laid down at ten centres carepting two. Trials of seed directly imported from Russia and Holland, and of Riga and Dutch brands generally sown in Ulster were also carried out at these centres. A few experiments of the continued of t

Information as to the flax seed harvest of 1910 in Russia and Holland was collected by the Department, and the various reports were summarised in the leaflet on Flax Seed for Sowing

in 1911, which was issued early in that year.

No new flax society was established in the year under review, and no grant towards the payment of managers' salaries was paid to societies which had received assistance in this respect during previous seasons. The services of two of the Department's flax experts were, however, given to six co-operative flax societies which continued their operations.

The Department's instructor was retained in the flax-growing districts of county Cork, where, owing to the greatly increased cultivation of this crop an assistant instructor was appointed by the Department for the summer months. Further grants were made to the owners of the two old-established mills in that county for the employment of Ulster scutchers, who again gave

instruction in scutching and handling to local men.

In 1910, Stewart's flax straw preparing machine was invented and placed on the market. It was devised for the purpose of squaring the straw before it is run through the rollers and thus obviate waste and increase the yield of fibre. With a view to bringing the machine before the notice of the public, the Department purchased four, and lent them to scutch mill owners during the scutching season, 1910-11. Favourable reports have been received on the working of the machines.

The report of the Committee appointed by the Vice-President of the Department in December, 1909: "to inquire into the present state of the flax growing industry in Ireland and the causes which are contributing to the decline of that industry, and to submit recommendations," was issued in January, 1911. The Committee's recommendations have been approved generally by the Department; some have already been acted upon, and the carrying out of others is under consideration. Of those which have been put into effect, the following come within the

scope of this Report :-

 The provision for an instructor in the flax-growing district in county Mayo which was made last spring; a grant towards the wages of a teaching foreman and scutcher in the larger of the two existing scutch mills which was arranged for the scutching season 1911-12; and the provision, through a local merchant, in the Spring of 1911, of sowing seed for the growers served by the second mill.

2. The granting of a loan, on easy terms, for part cost of the erection and equipment, according to approved plans and specifications, of a scutch mill in an outlying flax-growing district of county Donegal where the scutching facilities were hitherto insufficient, and a similar arrangement with the owner of a mill erected near Clonakilty to meet the requirements of the largely increased acreage in that locality. In both these cases it was arranged to make grants towards the wages of an approved mill foreman or approved workers who act as instructors to the local hands.

3. The selection, in the autumn of 1911, by competitive examination, of eight young men having a practical acquaintance with the flax crop, and the provision for the training, in 1911-12. under the Department's supervision of these apprentices in all operations connected with the growing, setting, scutching and handling, marketing, etc., of flax. At the time of writing the apprentices have commenced their work in the scutch mill, and such as complete their course of training to the Department's satisfaction will afterwards be available for employment as experts by associations of flax-growers.

4. The saving of seed from selected plants of Irish crops was carried out in 1911 on-a much larger scale than that previously

adopted.

The county Down and county Fermanagh committees of agriculture adopted Section A. of the Department's scheme for improvement in the flax-growing industry, and offered prizes in the scutching season, 1910-11, to the value of £201 at Shows for scutched flax. The committees of counties Armagh, Cork, Donegal, Londonderry, Monaghan and Tyrone adopted Section B. of the scheme, and offered prizes during the summer of 1911 for flax on foot. The total number of entries in these counties was 1,300, and the prizes amounted to £493 6s. 6d.

A copy of the Department's scheme will be found at page

249 of the Appendices.

The experiments in connection with the growth of early potatoes were continued in the district of Dungaryan. county Waterford. The season was ex-EARLY POTATOtremely favourable for this crop and good GROWING. returns were realised by the growers. No

financial assistance was afforded to the growers in the Yeughal district of county Cork as the industry appears to be well established there. As regards that district, it is worthy of note that the "catch" crop which follows in the same season is at least

profitable as the first crop of early potatoes.

Hitherto many complaints have been received concerning the difficulties of marketing early potatoes, both regarding the packages in which the potatoes are despatched and the rapid fall in prices which is experienced before the season is far advanced. In the hope of removing these disadvantages, the Department, during the past season, introduced the system of marketing the crop in chip baskets, and fixed prices for stated periods throughout the digging season were secured for the produce. The system, which is still in the experimental stage, was tried in two districts, but it will probably be tested on a more extensive scale in 1912.

The experiments in barley growing carried out in 1911 were largely a repetition of those of 1908, 1909, and 1910, the object of which was to ascer-BARLEY. tain the relative values of Danish Archer and Irish Archer which has been raised in Ireland from a selected stock by pedigree culture; and also to what extent, if any, Danish Archer deteriorates in yielding capacity and quality by

being grown in Ireland for a number of years.

In 1911 the experiments were conducted in the counties of Carlow, Cork, Kildare, Kilkenny, Louth, and Wexford. The results obtained verify those of 1908, 1909 and 1910, and demonstrate that no significant difference in either yield or quality exists between Danish Archer and Irish Archer, and also show that there is no deterioration in yield or quality of the former consequent on its cultivation in Ireland for five consecutive

The propagation of pure seed supplies of desirable varieties has been continued on the lines laid down in 1905. Further selections of suitable varieties were made in 1909 and 1910, and the produce of the same has been increased in garden and field plots at Ballinacurra, county Cork. The produce of the field plots grown at Ballinacurra in 1910 was sown in extension plots in the counties of Cork, Kildare, Kilkenny, and Tipperary in 1911, and arrangements have been made with local maltsters and others to secure the produce for seed purposes in these districts in 1912. The propagation of selected plants was continued in the

nursery at the Albert Agricultural College, Glasnevin. Plants exhibiting desirable modifications will be further propagated until sufficient seed is obtained with which to conduct quantitative field trials.

A detailed report of the results of the experiments conducted in 1911 is in course of preparation.

The present scheme of wheat experiments was commenced in 1908 with the object of ascertaining the varieties most suitable for cultivation, WHEAT. having regard to the value of the grain for milling purposes, and the return per acre to the grower.

The varieties sown in 1911 were the same as those of 1910, viz. : Red Fife, Red Chaff White, White Queen and White Stand Up, and the experiments were situated in the following counties:-Carlow, Cork, Dublin and Kildare.

The cultivation of pure seed wheat has been continued in a similar manner to that adopted in regard to barley, and sufficient

seed of pure stocks was raised in 1911 to sow extension plots in counties Carlow, Kildare and Tipperary.

Extensive selection experiments were conducted in the nursery at the Albert Agricultural College, Glasnevin, and the produce of selected plants will be sown in garden plots at Ballinacurra in 1912. The produce of garden plots sown at Ballinacurra in 1911 has been sown in field plots at that place and the produce will be utilised for experimental purposes and for extension plots in 1913.

The produce of the milling plots of 1910 was subjected to milling tests and the reports furnished to the Department by the firms who kindly undertook this work substantiate the conclusions already arrived at, namely, that Red Fife produces the "strongest" flour and White Stand Up the "weakest," while White Queen and Red Chaff White are intermediate in value. Baking trials were conducted by two Dublin firms, and the reports they have been so good as to supply are in accordance with the general opinion expressed by the milling firms.

case general opinion expressed by the milling firms. In addition to the varieties grown on the milling plots the following seven French wheats and two Cambridge University new hybrid wheats were tested at the Abbert Agricultural College Farm, Glasnevin:—Sensation, Treasure, Red Marvel, White Marvel, Dreadonoght, Perfection, Burgoyne's Fife, Little Joss,

and Red Fife.  $\Lambda$  detailed report of the results of the field experiments of 1911 is in course of oreparation.

The produce of the pure cultures of oats commenced in the Glasnevin nursery in 1909 was sown in garden plots at Ballianeurra in 1919, and the produce obtained therefrom was sown

in field plots at that place in 1011. Sufficient seed of several varieties has now been obtained to conduct variety large scale tests in the country in 1912, and any surplus will be utilised for sowing extension seed plots at suitable centres. The selections made in 1910 were grown in garden plots at Ballimacuras in 1911 and the produce obtained will be used to sow field plots there in 1012.

An additional centre for experiments in the cultivation of fruit
as a farm crop was established during the
FRUIT AS A FARM winter of 1910-11. Twenty residents in the
CROP EXPERIMENT. neighbourhood of Ballymoney, county Antrim, offered land suitable for the purpose.

Each has planted an acre with 820 apple trees selected from varieties approved by the Department, and has agreed to fence the fruit plot properly at his own expense, to cultivate and manure it, to gather, grade, and pack the fruit, to keep records of receipts and expenditure, and generally to manage his plot, in accordance with the Department's directions for a period of three years at least. The Department have defrayed half the cost of the trees planted, and are affording the occasional services of a skilled horticulturist to supervise the work and to advise the fruit growers. The Department have continued to afford the services of a horticulturist to the fruit centres established in previous years at Piltown, county Kilkenny, Broadway, county Wexford; Dungarvan, county Waterford; Newmarket-on-Fer-gus, county Clare; Mount Bellew, county Galway, and Moneymore, county Londonderry. The total area in Ireland planted with fruit trees in connection with these experiments now amounts to 195 acres. In addition, the Department haveas mentioned in the Ninth Annual Report—assisted plot-holders

and other residents in the district to extend the acreage under fruit at some of the centres. The following is the acreage covered by the extension plots:—

Broadway centre, 18 plots, comprising a total area of 9½ acres. Piltown centre, 15 plots, comprising a total area of 5½ acres. Moneymore centre, 28 plots, comprising a total area of 13% acres.

The experiments in the production of tobacco may be divided under three heads, viz.: large scale experi-

under three heads, viz : large scale experiments, small growers' ("re-handling") experiments, and nicotine experiments.

Large scale experiments.—These were continued in 1911 on the same conditions as in the previous year. The following table gives the area cropped at each experimental centre:—

					Acres
Randlestown, co. Meath,					26
Athlumney, do.					10
Dulcek, do.					1
Smarmore, co. Louth.					18
Mullagh and Mullacrew.	King's	cou	nty,		14
Talbotsinch, co. Kilkenn	у, .		-:		7
Tagoat, co. Wexford, .					13
Cordangan, co. Tipperary	γ, .				10
Adare, co. Limerick, .					20
			Total,		119

The maximum area in respect of which grants, at the rate of \$20 per acre, are allowable to grovers for conducting these experiments is 101 acres. The additional acreage is grown under ordinary licence, and, while no grants are payable on account of it, the results will be included with those of the area grown under subsidy.

A concession to grow two acres in county Meath, which lapsed in 1909, was taken up by another grower in the same county who had had considerable experience of tobacco growing abroad and was in a position to supervise the operations of several growers under the small growers' scheme. One of the members of the Wexford tobacco growers' society died during the year and a new member was elected by the society to take his place.

A report, bringing the results of the work down to the end of the season 1910, was published in the issue of the Department's JOURNAL for January, 1911.

Small growers' experiments.—As mentioned in last year's Report, the Department put into operation in 1910 a special scheme with a view to testing the suitability of tobacco as a crop for small farms. In that year the scheme was in operation at three centres and seven small farmers participated; the total areas cropped by them being 44 acres. A scheme on similar lines was approved for 1911 and experiments under it are being conducted as follows :---

Randlestown	Centre-	-11	small growers,				Acres 94
Adare	do.	3	do.				21
Smarmore	do.	2	do. do.	- 1	:		1
		_		•	•	•	

No farmer is allowed to grow more than one acre under the scheme. The scheme is working smoothly, and it appears that the sub-

sidy allowed to the large growers who undertake the finishing of the small crops for market, viz., £25 per acre, is sufficient to provide an attractive profit on both branches of the work. An application for additional funds for experiments to test the

economies to be effected in the production of tobacco in this country by the introduction of the American system of rehandling crops is at present under consideration by the Development Commissioners.

Nicotine experiment.-An experiment designed to test the possibility of tobacco being grown commercially, solely for the manufacture of nicotine for insecticides, was carried out in 1910 on an area of one acre. The results showed a loss of £2 15s. 6d. per acre, but they pointed the way to certain alterations in the methods of production which have been followed in a similar experiment which is being conducted this year. The alterations involve the production of a crude fluid extract direct from the fresh green plants instead of the curing of the plants in the ordinary way.

In 1911, pipe varieties were planted on 100 acres, cigarette varieties on 28 acres, cigar varieties on 5 acres, and varieties for the production of nicotine on 1 acre.

The Department understand that four persons other than recognised experimenters grew tobacco in Ireland in 1911 under ordinary licences. The area covered by these licences is only

one acre and thirty-one perches.

The season of 1911 was, on the whole, exceptionally favourable for tobacco growing. Although very dry weather seriously interfered with the preparation of the land and the planting operations, and to a slight extent curtailed the growth in some places, the unusual sunshine, dryness, and warmth were very beneficial to the quality and growth of the plant, and the continuance of dry weather to the end of the season greatly facilitated harvesting and curing. The crop would probably be the best both as to average yield and quality that has been grown since the beginning of the experiments were it not for the fact that the tobacco on about fifteen acres was unavoidably injured by insects and disease

The tobacco grown in 1910 at all centres, except two, has been sold to manufacturers, the average price obtained being 51d. per lb. The prices ranged from 4d. to 61d. per lb. for pipe varieties, 6d. per lb. for eigarette varieties, and from 31d. to

8d. per lb. for eigar varieties.

The reports of the manufacturers who purchased the crop grown in 1909 were similar to those made on the 1907 and 1908 crops. Most of the tobacco was blended carefully with foreign leaf, but in one case Irish grown tobacco alone is reported to have been used with successful results.

As the Department were of the opinion that the object for which the Avondale station was started in 1904 had been to a large extent fulfilled, POULTRY and that the demand for trained fatteners PATTENING.

could in future be met by the provision of apprenticeships at approved privately-owned poultry stations, the work of this station was transferred in August, 1911, to a similar station newly established in the district under private management. An arrangement of this nature, by which four apprentices will be trained at the Castle poultry farm, Rath-

drum, during the coming year, has been completed.

At the beginning of the year 1910-11 five apprentices (three second year and two first year) were in training. The three second year apprentices completed their course in March 1911 and left the station qualified to act as poultry fatteners. Two of these apprentices, on the conclusion of their course at Avondale, took out satisfactorily a six weeks' course of instruction at a co-operative poultry society in the duties of manager of a co-operative poultry society. Of the two first-year apprentices, one left without completing his training, and one is at present undergoing instruction at the Castle poultry farm, Rathdrum. No examination for poultry fattening apprenticeships was held during the period under review. Four county instructors in poultry-keeping attended supplementary courses in the fattening, trussing of fowl, the grading of eggs, etc., at the station in January, 1911.

At the commencement of the year 1910-11, one poultryfattening establishment was in receipt of a subsidy from the Department towards the wages of a fattener. The period for which the subsidy was allowed in this case, terminated shortly after the commencement of the year. Three other stations have since been granted subsidies of £1 5s. per week towards the wages of a fattener for a period of twelve months, and a subsidy has been provisionally approved in a fourth case.

In view of the necessity of developing to the utmost extent the production of eggs and poultry in the CONFERENCE ON United Kingdom to meet the increasing demand caused by diminution in supplies

POULTRY INDUSTRY. from abroad, a conference of those interested in the industry was convened by the Department, and held in Dublin early in May, 1911. In organising the conference the Department were much indebted to the active co-operation of the Board of Agriculture and Fisheries, and of the various societies and colleges in Great Britain and Ireland engaged in the work of education and organisation in connection with the industry. Upwards of 200 delegates and members with the industry of the control of the control of the control educational authorities, organising societies, producers, slippers, carriers, and distributors of eggs and poultry. Interesting and instructive papers, prepared by experts in their several departments, were discussed at length, and the proceedings of the conference were fully reported in the Press of the United Kingdom. India to tell in favour of the industry.

During the course of the proceedings it was stated that Ireland now holds first place among the countries which supply eggs and poultry to Great Britain. The value of her exports under these heads during the past two years approached the sum of 24,000,000 per annum, showing, as compared with the value of these exports in 1904, an increase of almost 21,000,000. It was also shown that the poultry supplied at the present time by Ireland to Great Britain exceeds in value that supplied by all the other countries in Europe combined. The Department believe, however, that the industry in Ireland is capable of much greater development. The land of the control of the demands of this magnificent market than it at present does.

This to be hoped that still further advantage will be taken by producers in this country of the various schemes for the development of the industry administered by the Department and the country committees, and that, by the use of improved methods of grading, packing, and marketing, the value of Irish exports

will continue to be increased from year to year.

A full report of the proceedings of the conference, containing
copies of the papers read and the discussions thereon, has been
prepared by the Department, and may be obtained from E.
Ponsonby, Ltd., Government Sale Agents, 116 Grafton Street,
Dublin, Dries 18., Dosfase extra.

Buyers continue to report a steady, although slow, improvement in the methods of marketing adopted by Irish producers and slippers; but they still complain bitterly of the too frequent admixture of stale eggs amongst those

admixture of stale eggs amongst those invoiced as "new laid." The Department have more than once had occasion to point out to British buyers that the too common practice of buying the cheapest eggs offered, without any guarantee as to freshness, is largely responsible for the continuance of the fault complained of. There is no doubt that when pries are rising, both producers and higglers have a tendency to "hold" eggs, and not unfrequently what are known as "harvest "age are sold by producers as "fresh." Shippers who desire too ensure that the eage they pook rar fresh should, when priese too ensure that the eage they pook rar fresh should, when priese the producers are sold to the producers. The aloption of this practice would entail some additional expense, but it appears to be the only efficacious method of ensuring the reliability of guarantees as to freshness on rising markets. It is difficult to conceive that any shipper consistently adopting such a practice would not very soon establish such a reputation for reliability as would ensure steady sales at prices sufficient to cover all extra expenses incurred.

The more general adoption of the punctice of spaying, and the increased production of apples, such as MARKETING of FRUIT.

OF FRUIT.

Tamarley's Seedling, and other readily marketable varieties, have done much to furmarkets. It is freely admitted by the best authorities in the trade that Ireland produces the finest late-keeping cooking apple known on British markets, Le, Brankey's Seedling, but the

trade that Ireland produces the most new-keeping cooking apple known on British markets, I., Bramley's Seedling, but the quantity is limited. It remains for Irish first growth of the crease their output of this water, I make the proper attention proper attention to the proper of the produce of the proper of the large quantities of the three of rou varieties which can be most profitably cultivated in their districts. If fruit culture is to be profitable, it is essential that the produce shall be marketed in suitable condition, properly graded, and carefully packed. The grading conditions, standard borrel, and standard box of

The grading conditions, standard barrel, and standard box for spleps, recommended by the Department, have been adopted by many Irish growers, and have proved satisfactory. It is hoped that in all districts in which the culture of apples for market is developed to any considerable extent, gowers will adopt the grading conditions and standard packages referred by recommend that growen and the considerable extent. The remainder that the property of the results of the results of the results of a successful of the results of the results of the results of such associations can be presented to the property of the possible, and tends to the general adoption of uniform grading and packing conditions.

The Department's efforts to induce shippers of blackberries to use converted butter kiels, holding about 100 lbs. of berries, instead of casks holding about 134 ewt. of fruit, have been attended with a large measure of success. Serious complaints had been made in the past by many British jam makers as to the unsatisfactory condition in which much of their influence with Irish buyers and shippers to induce them to adopt improved methods of collecting and packing the fruit. The converted kiel was

used during the past season by shippers with very satisfactory results; so much so that the demand for converted kiels considerably exceeded the supply. Buyers expressed themselves as well pleased with the new package, stating that the fruit was delivered in very much better condition than when sent in large casks. The Department are also endeavouring to promote the export of blackberries of the best quality in chip baskets, as there is a large sale for such fruit in Great Britain.

Attention has also been given to the marketing of bilberries

and other wild fruits.

Under the scheme for encouraging improvement in the management of creameries (see page 278 of IMPROVEMENT IN the Appendices), visits to creameries and THE MANAGEMENT auxiliary creameries are made by the De-OF CREAMERIES. partment's instructors in dairying; and surprise butter inspections are held. The

number of creameries and auxiliary creameries participating in the scheme was 896, showing an increase of 15 on last year's figures.

 Visits to Creameries and Surprise Butter Inspections.—The following tables give (a) the number of visits to creameries made by the eight instructors in dairying; (b) the number of creameries and auxiliary creameries included in the lists issued by the Department in accordance with clause 8 of the scheme, and (c) the number of surprise butter inspections held by the Depart-

Number of Places Year ended visited by		Number of Visits made by	List of Creameries and Auxiliary Creameries published in accordance with Clause 8 of the Scheme				
30th Sept., 1911	th Sept., Instructor		Date of Issue	No. of Creameries on List	No. of Auxiliary Creameries on List		
Creameries, Auxiliary Creameries,	176 220	1,052 988	21st Oct., 1910, 26th Jan., 1911, 26th April, 1911, 1st Aug., 1911,	88 89 98 95	111 111 112 118		
Totals, .	396	2,040	1st Aug., 1911, .	95	118		

## Surprise butter inspections.

Telegrams Issued during the year		Number		Number of Prizes awarded	
ended 30th Sept., 1911	Exhibits Judged	exhibit	First Class £2	Second Class £1	
9tb November, 1910, 5tb December, 1910, . 31st March, 1911, . 5th May, 1911, . 12th July, 1911, .		70 56 42 76 73	2 2 —	5 2 —	

2.—Local Surprise Butter Inspections.—Up to the present year the surprise butter inspections (litherto known as surprise butter competitions) were carried out solely by the Department. It was decided this year to discontinue the sawarding of prizes at these inspections and to devote instead portion of the available funds to encouraging local surprise butter inspections to be carried out by committees representative of the proprietors and managers of all the participating creameries. The Department agreed to make grants towards the cost of inspections held by local committees of this kind, subject to the following conditions:

- (1) That a sufficient number of creameries participate regularly in the inspections. (2) That all the reculations made by the local committee are
- submitted to the Department for approval and are approved by the Department.
- (3) That a proportion of the cost of the inspections is contributed by the proprietors of participating creameries. (4) That the local committee accepts complete responsibility
- (4) That the local committee accepts complete responsibility for the proper carrying-out of the inspections.
  (5) That the inspections are carried out strictly in accordance

with the regulations as prescribed by the local committee and approved by the Department.

This arrangement did not come into operation in 1911 until the season was well advanced, as the preliminaries in connection

season was well advanced, as the preimmaries in connection with the formation of the local committees occupied necessarily a considerable time. The following table shows the number of surprise butter inspections held by two local associations formed for the purpose:—

Name of Association conducting Surprise Butter Inspection	Number of Creameries comprising Association	Number of Surprise Butter Inspections held
North West Dairy Association, Suir Valley Creameries Association, .	15 13	3 2

The Department, on the application of the associations, have agreed to make a grant in each case equivalent to one half of the cost of the inspections held during the year 1911, provided that the total cost does not exceed a sum equivalent to £2 for each participating creamery and that the total liability of the Department to each association does not exceed £20.

3.—Certificates. Practical Training of Managers and Dairy-maids.—The following table gives the number of creamery certificates awarded and the number of pupils trained at creameries during the year 1911:—

Examination for Certificates					Practical at Crea	
Date of Examination	Number of Candi- dates		Number c ficates aw	Pupil Creamery Managers	Pupil Dairy- maids	
		Creamery Manager's Certificates	Certificates of having passed Exam- ination	TOTAL.		
8th, 9th and 10th March, 1911,	18	2	7	9	7	3

Candidates at the examinations for creamery extilientes are examined in the subjects of dairy bacteriology, dairy technology, dairy engineering, physical science and business methods. The creamery manager's certificate is awarded only to successful candidates who have managed a creamery to the satisfaction of the Department.

The pupils referred to in the table above receive a maintenance allowance at the rate of 10s. per week while stationed at the creamery, in addition to free instruction.

4.—Courses of Instruction for Managers.—At the request of a branch of the Irish Creamery Managers' Association in the north of Ireland, us observed one of Ireland, us observed ones of Ireland, us observed ones of Ireland, us observed ones of the Ireland, us observed ones of Ireland, us observed ones of Ireland, us observed ones of Ireland, us of

season have already been received.

The Department have offered to a limited number of creamery managers free places at the creamery course to be held at the Department's agricultural station, Ballyhaise, county Cavan, this winter.

5.—Experiments and Investigations.—(a) The results of the experiment relating to winter dairying carried out at the Cen-

tenary Company's creamery in county Tipperary, although not conclusive, justified the continuance of the investigation, which aims at answering the following questions:—

- 1. What is the highest price which can be paid, in the case of an average creamery, for milk during the winter months? and
- 2. Will this price be sufficient to induce farmers to undertake milk production for creameries during the winter season?

The Department accordingly arranged this year with three creamenes for the purpose of prosecuting this investigation.

In the case of two of these creameries, viz.: Drumbolm Co-Operative Agricultural and Dairy Society's creamery in county Donegal, and Lissarda Co-operative Dairy Society's creamery in county Cork, the Department guaranteed the proprietors against any loss which might be incurred by them in paying their suppliers at the following rates:—

A minimum price of \$d\$, per gallen during the months of December,
Jamury, and February, and of \$4\flat{d}\$, during the month of March.
The society may, in addition to paying for \$m\$ and the price of t

The foregoing arrangement is to hold good for a period of three years from the 1st December, 1811.

In consideration of the Department's guarantee, the societies have agreed to conduct their business in such manner as the Department may approve and to keep such records and accounts as the Department may consider desirable for the purposes of the

experiment.

In the case of the third creamery, which is owned by the
Piltown Co-operative Agricultural and Dairy Society, the Department have given no guarantee, but have agreed to defray
half the remuneration for one year of an assistant, in order to
help the society in carrying out the alterations in the manner of
conducting the business of the creamery which are required in

connection with the experiment.

In the case of all three creameries, the Department have stipulated that cow testing associations shall be formed among the milk suppliers.

(b) The investigation (referred to in last year's Report) into the effects on butter of the use of various brands of salt and the value of the use of a preservative was continued this year. The results of the further investigation are not yet available.

(c) The Department have continued this year to supply monthly to a number of creamery proprietors and managers, in accordance with the system outlined in last year's Report, statistics giving particulars of the costs of manufacture and of the prices received for butter at a number of creameries. The collection and issuing of these statistics is, however, now carried out by the Statistics and Intelligence Branch of the Department.

6.—Com Tetting Associations.—Twelve cow-testing associations have been formed in connection with the Department's scheme for improving the dairy cattle of Ireland. These associations consist of dairy farmers who agree to test the quality and quantity of multi-yielded by each of the cows in their herds with a view to discarding those cows which give poor yields of milk and to replacing them by cows of a good milking strain. In this way increased, making the property of the property of the property of the property of the cows will, it is hoped, be gradually increased.

These associations are located as follows:—2 in county Cavan, 2 in county Cork, 1 in county Donegal, 2 in county Kilkenny, 1 in county Limerick, 1 in county Silgo, 1 in county Tipperary,

2 in county Tyrone.

In addition to the experiments carried out in connection with the creameries mentioned at page 83,

WINTER DAIRYING. the Department, as stated in the last
Annual Report, arranged to repeat on one
farm in each of the counties Tryone and Cork, the investigations

as to the results obtained from the system of summer dairying as compared with that of winter milk production. Unfortunately, the experiment in county Cork had to be abandoned owing to an outbreak of abortion amongst the cows which had been setapart by the test. It is hoped that results from the experiment of the contract of the contract of the contract of the contract date.

Investigations of a similar nature were continued at the Department's agricultural stations.

Caerphilly Cheese.—At present the production of cheese, as com-

pared with the production of butter, is very cheese, as compared with the production of butter, is very cheese. MAKING EXPERIMENTS. Small in Ireland. In order to encourage the manufacture of cheese in this country, the Department, by providing the services of an

experienced maker and by general supervision, assisted a Dairy company in county Cork to undertake an experiment in the manufacture of Caerphilly cheese. The results of the experiment were most successful; the net return after making allowance for the cost of marketing, being about 8d. per gallon for the mik used. As this cheese can be made successfully from milk produced during the winter months, it offers a very good opening for the disposal of whole milk during the winter season. The Department have arranged for the training of makers with a view Ireland in the near future. Start of the disposal of the relating at present. An account of the experiment will be found in the Department's JOHNEAN, I.O. 15, No. 4.

Cheddar Cheese.-The following is a summary of the results obtained at Ballyhaise Agricultural Station for the seasons 1908. 1909 and 1910 :--

	1908.	1909.	1910.
Milk made into Cheese,	13,103 gallons	18,672 lbs	14,977 gallons,
Curd produced,	13,411 lbs.		15,152 lbs.
Ripe Cheese sold,	11,704 lbs.,		13,194 lbs.
Shrinkage in ripening,	12'8 per cent.		13 per cent.
Gross value,	£225 18s. 7d.		536 7s. 5d.
Net value of cheese,	6'6d. per lb.		6 ld. per lb.
Net value of milk,	5'97d. per gal.		5 3d. per gal.

The low prices for new cheese prevailing in the 1909-10 season continued for the greater portion of the 1910-11 season. The prices during the latter season ranged from 50s. per cwt. for spring cheese to 65s. per cwt. for summer cheese. An increase in prices is anticipated in the coming season. As in previous season, the whey was used for pig feeding.

Stilton Cheese .-- Arrangements were made in 1910 to have a pupil from Ireland trained as a maker of Stilton cheese under an experienced manufacturer in England. Since the conclusion of his training he has been employed at the Department's agricultural station, Ballyhaise, where he made Stilton cheese during 1911. If the results are favourable, the Department will consider the advisability of promoting the manufacture of this class of cheese as an industry in Ireland.

During the summer of 1911, two experiments on the fattening of cattle on grass were carried out-one in

county Dublin and one in County Louth. CATTLE FEEDING EXPERIMENTS. The experiments, which were supervised by the county agricultural instructors, were

devised with the object of testing home-grown feeding stuffs against imported feeding stuffs. The home-grown produce consisted of a mixture of ground wheat, oats and barley, while the imported food stuffs consisted of a mixture of undecorticated cotton cake and Indian meal. . The results of the experiments will be published in the Department's JOURNAL. The question of the economy of selling grain produced on the farm and of purchasing imported feeding stuffs is one of vital importance to many farmers, and the Department hope to arrange for further experiments of a somewhat similar nature.

Other experiments on the feeding of cattle and pigs are in progress at the agricultural stations.

In view of the results obtained in connection with the marketing in London of the trial consignments DEAD MEAT TRADE, of meat from Enniscorthy and Strabane mentioned in the Annual Report for 1909-10, conferences were held towards the close of 1909-10 between representatives of the Department and farmers from counties Cork, Down, Kildare, Louth, Tyrone, and Wexford, who were interested in the project of establishing a dead meat trade with London or other large etities. As a result of these conferences, the Department made provision for grants towards defraying preliminary expenses and providing expert advice in the initial stages of the industry as follows:

(a) To be administered by the county Louth committee of agriculture in connection with the industry started at Drogheda, and to be applied for the following purposes:—

- 1. Remuneration of qualified instructor for one year.
- 2. Remuneration of qualified butcher for one year.
- Miscellaneous expenses, such as travelling expenses of instructor, fees of expert to advise re abattoir, etc.
- (b) To be administered by the county Wexford committee of agriculture for similar objects in connection with the industry started at Wexford.

(e) To the North of Ireland Cattle Feeders' Association in connection with the marketing of a few trial consignments from Bellast, to be applied in the payment of wages of an expert butcher for some weeks, cost of carriage of consignments and certain incidental expenses.

The dead meat society formed in county Louth by the Louth and Meath Farmer's Association commenced work in January, 1911, and continued the marketing of meat until the end of May, when it was decided to suspend work for a few months owing to want of a suitable abattoir and also to the warm weather. When the suitable is the suitable in the premise of local butcher. The adesured the suitable was to the reported very favourably both as to its quality and the namere in which it was dressed and stated that it could stand comparison with Sootch meat. The county Louth society are considering plans for the construction of an abattoir.

The dead meat society formed at Wexford did not avail themselves of any portion of the grant made to the county committee of agriculture for county Wexford, as they proposed that the money should be utilised in carrying out a scheme for testing methods of feeding cattle intead of being expended as indicated above. The details of the scheme of feeding experiments had not been finally arranged at the end of the year under review.

In the experiment carried out by the North of Ireland Cattle Feeders' Association, 41 heasts were slaughtered in Belfast and disposed of in London. The prices realised were regarded by feeders as satisfactory in view of the rates current in the home markets. Several hundred samples of copper sulphate and washing soda were subjected to analysis during the season.

and it is to be noted with satisfaction that, ANALYSIS OF with the exception of one case, where wrong SPRAYING material had been inadvertently supplied MATERIALS. by a trader, all the samples were up to the

high standard of purity required for spraying purposes.

It may be observed that the only instances that have occurred during the past few seasons of samples submitted being found to be unsuitable for spraying purposes were cases similar to that above referred to, in which wrong material was inadvertently supplied. The fact that such errors are possible should impress upon farmers the desirability of having their spraying materials tested before using them.

A special report of proceedings under this Act is now published annually by the Department. The report in respect of the year 1910-11 is FERTILISERS AND FEEDING STUFFS at present in course of preparation, copies ACT, 1906. of which, when published, may be purchased

from E. Ponsonby, Ltd., Government Sale

Agents, 116 Grafton Street, Dublin.

During the year special courses of instruction on matters connected with the technical side of their business were provided by the Department for the benefit of traders engaged in the sale of artificial manures and feeding stuffs. The classes were well attended, and the traders expressed their appreciation of the value of the instruction provided, which is calculated to prove of great assistance to them in the conduct of their business. Arrangements have been made by the Department for the holding of similar classes in other towns, and they will be glad to receive applications from traders desiring to have classes of this nature held in their neighbourhoods.

Two officers were again detailed by the Department to devote their whole time, during portion of the spring, to the work of visiting the shops and stores of merchants engaged in the sale of fertilisers and feeding stuffs. From these officers and from their official samplers throughout the country, the Department received upwards of 800 samples representative of the manures and feeding stuffs sold or offered for sale, from an examination of which very useful information as to the condition of the trade was obtained. The Department are glad to be able to report a reduction in the demand on the part of Irish farmers for the low grade, imported compound manures, reference to which has been made in previous reports. The warnings issued by the Department in regard to these manures, and the experiences which many have had of the results of using them, have convinced most farmers of the folly of expending money in the purchase of such inferior mixtures.

In the report, referred to above, particulars are given of two interesting cases in county Tipperary, in which a number of

small farmers were processed in the County Court by Liverpool firms for amounts charged for supplies of such compounds. These charges the farmers had declined to pay, on the grounds. These charges the farmers had declined to pay, on the grounds that their orders for the manner sugards, and that their orders for the manner supplied were works for the growing of crops. Evidence in support of their place was given by the county agricultural instructor and by the Department's analyst, and the cases were dismissed with costs against the plaintiff court panies.

During the past year prosecutions under the Act were instituted by the Department against manufacturing firms in Liverpool. Glasgow, and Dublin for selling to Irish farmers feeding stuffs which were not of the standard guaranteed, or which contained ingredients worthless for feeding purposes, and not disclosed in the invoices. A conviction was obtained in each case, and fines varying from £2 to £1s, with costs, were imposed.

American Gooseberry Mildew and Black Currant Mite (Ireland) Order, 1908.

The work of inspection under the provisions of this Order was continued as in former years. Visits were DESTRUCTIVE paid by each titnerant instructor in horti-RESCUS AND FESTS culture to gardens in his district, and reports

ACTS, 1877 AND 1907 were submitted to the Department in all cases where disease was found to exist.

118 cases of American Conselvery Milder and Library of Ellipse.

118 cases of American Gooseberry Mildew, and 111 cases of Black Currant Milts were reported during the year. Notices requiring the immediate destruction of all diseased bashs were served on the growers in these instances, and further measures prescribed with a view to preventing the spread of the disease. In all, some 60,000 bushes affected with American Gooseberry Mildew or Black Currant Milte were destroyed without compensation.

Applications were received from several nun-remen in Ireland for permission to import bushes, but, owing to the provisions of Article 5 of the Order, the Department were repulsed from issuing licences, as in no case was it shown that the bushes were intended solely for the purpose of experiment, or of propagating new varieties.

Further spanying experiments were carried out during the year under the direction of the Department. The results obtained did not after the opinion, previously expressed, of the Department that, whilst spanying with certain fungicides is a useful preventive measure, the only certain method of eradicating the American Mildew, once it has made its appearance in a garden, is the immediate destruction, by burning, of all the affected bushes. Black Scab in Potatoes (Ireland) Order, 1908.

Arrangements were again made last season for the thorough inspection of the lands on which outbreaks of Black Scab had been discovered in former years, and an officer of the Department was detailed to inspect the potatoes when being lifted and pitted. Five additional cases of the disease were discovered, all in the same small district in county Down, in which this disease had previously made its appearance. Two of these five outbreaks occurred on the lands of occupiers on other portions of whose premises affected tubers had been found in 1908 and 1909 respectively. All the outbreaks were of a very slight extent, the number of diseased tubers found in each case being comparatively trifling. Notices were immediately served on the growers requiring them to burn all diseased tubers and all the haulms, and to dispose of the remaining healthy tubers in the manner prescribed by the Department. An officer of the Department personally supervised the measures taken by the growers to comply with the requirements of the notices served. In addition, the growers were prohibited from again planting potatoes on the same ground without the sanction of the Department.

As a result of the complete inspections which have been made during the last three years, the Department have every reason to believe that the disease is confined entirely to the one small district in which it has so far appeared.

The regulations governing the importation of potatoes into Malta remained unchanged during the past year. The Department issued the usual certificates required by the Maltese authorities stating that Black Seab did not exist in the counties from which the potatoes were exported. The total shipments for the season amounted to 8,738 tons.

Weeds.—As mentioned in last year's Report, the councils of sixten counties signified their converges and section of sixten counties signified their consent to the making by the Department of AGRICULURIAND weeds Orders in respect of their services (RELLAND) counties. Early this year, the Department arc, 1009 made further representations on the subject

which the councils of three additional counties, viz.: King's, Louth and Tippenry (R.R.), intimated their desire to have the strainty of the counties of the counties of the counties of the strainty a case. These intimations were not, however, conveyed to the Department in time to permit of the counties concerned being included in the scheme of inspection during the past season. The matter was also brought under the notice of the in the county broughts of Dubbin and Bellast. is now in force

The appended list shows the counties and county boroughs

in which this Part of the Act is now in operation, together with the weeds scheduled as noxious in each case.

County. Plants declared to be Noxious.

Antrim . Ragwort, Charlock, Coltsfoot, Thistle, Dock.
Down, . Charlock, Coltsfoot, Thistle, Dock.
Charlock, Coltsfoot, Thistle, Dock.

Dublin, Ragwort, Colisfoot, Thistle, Dock.
Fermanagh, Ragwort, Charlock, Coltsfoot, Thistle, Dock.
Ragwort, Charlock, Coltsfoot, Thistle, Dock.
Ragwort, Charlock, Coltsfoot, Thistle, Dock.

Kerry, . . . Ragwort, Charlock, Coltsfoot, Thistle,
Dock.
Kildare. . . . Ragwort, Coltsfoot, Thistle, Dock.

Kildare, . . . Ragwort, Coltsfoot, Thistle, Dock.
Kilkenny, . . . Thistle.
King's, . . . Thistle, Dock.

Limerick, . . . Ragwort, Charlock, Coltsfoot, Thistle, Dock.

Londonderry, . . Thistle, Dock.

Louth, . . . Ragwort, Coltsfoot, Thistle, Dock.
Meath, . . . Ragwort, Charlock, Coltsfoot, Thistle,
Dock.

Monaghan, . . . Ragwort, Charlock, Coltsfoot, Thistle, Dock.

Queen's, . . . . Ragwort, Coltsfoot, Thistle, Dock.

Roscommon, Ragwort, Charlock, Coltsfoot, Thistle,
Dock.
Tipperary (N.R.), Charlock, Ragwort, Thistle.

,, (S.R.), . Ragwort, Charlock, Coltsfoot, Thistle,
Dock.
Westmeath, . Ragwort, Charlock, Coltsfoot, Thistle,

Dock.

County Boroughs.

Belfast, . . . Ragwort, Charlock, Coltsfoot, Thistle,
Dublin, . . . Ragwort, Charlock, Coltsfoot, Thistle,
Dock.

The work of inspection under the Act was commenced on 20th June and continued until the middle of September. This entailed the almost constant employment during this period of 21 inspecting officers from whom reports were received in regard to over 6,000 cases of prevalence of weeds, as compared with 2,486 cases reported last year. In 5,874 cases, notices requiring the destruction of weeds were served on the occupiers. The inspectors reported that the requirements of the notices had been fully complied with in 5,360 of these cases (914-14 per cent.);

partly complied with in 440 cases (7.5 per cent.), (chiefly cases reported by inspectors late in the season and in which it was

being proceeded with); and no action was taken by the occupiers or responsible pulse in 68 cases (1+ per earl.). The Departs or responsible pulse in the instead time at their disposal, to obtain accurate information as to the ownership, etc., of a number of farms on which noxious weeds were reported as being prevalent. In 21 instances, prosecutions against occupiers being the weeds as required on their lands were obtained and fines imposed in the process of the prevalent of the

influcted. The foregoing figures show that the number of cases in which difficulty was experienced in inducing farmers to cut their weeds was trifling. In the remaining cases the requirements of the notices were willingly complied with.

The appended table shows the number of cases dealt with in each county:—

	Number of Notices					
County	Served	Complied with	Partly Complied with	Not Complied with	of Prosect tions	
Antrim, Armagh, Down, Down, Dublin, Fermanagh, Kerry, Kildeare, Kildeare, Kildeare, Kildeare, Kildeare, Monaghan, Queen's, Roscommon, Tipperary, S.B., Westmeath,	223 242 101 275 113 452 443 240 633 589 514 404 281 722 353	185 227 96 257 105 378 387 184 591 575 546 187 371 265 677 335	34 11 3 15 8 58 58 48 32 2 49 26 32 12 43 14	4 4 2 3 16 3 8 10 3 3 1 1 1 4 2 4	1	
Totals,	5,874	5,366	440	68	21	

Soids.—Under the provisions of Part II. of the Act, 1788 samples of agricultural seeds were taken by the Department's officers from stocks on the premises of retail and wholesale evadors of seeds throughout the country. Of these samples 682 were tested for party and germination, and the result the tests showed that large quantities in many districts. The cases worthless, consequence have under serious consideration at present the question of publishing the results of the tests

In view of the importance of this subject the Department have decided to prepare a special report of proceedings under Part II. of this Act which will be published along with the report of proceedings under the Fertilisers and Feeding Stuffs Act previously referred to. Copies of the combined apport, on publication, may be purchased from E. Ponsonby, Ltd., 116 Gratton Street, Dublin.

During the year 1910-11, the total number of samples tested was 2.089, being an increase of 180 ever the sext Destruction of t

testing from the number of samples takent throughout the pursuance of the provisions of Part II. of the Weeds and Agricultural Seeds (Ireland) Act, 1999. An increase number of samples submitted for testing over that of the previous year is shown in the case of each of the four above-mentioned document of the exception of that of farmers, where there is a decreased that the exception of the samples tested under the Act, lead to 100 of the received from seed merchants outside of Ireland, and the number received from seed, will be found in the accompanying table:

	inty.		o. of aples.	County.		of	
atrim.	6 -		141	Limerick .	PAGET	rivios.	
magh			43	Londonderry		4	
rlow			54	Longford .		126	
van			35	Douglord .		0	
ire				Louth .		38	
rk			0	Mayo .		9	
megal			183	Meath	- 1	8	
			32	Monaghan .		22	
wn			75	Queen's County		10	
blin			192	Roscommon			
rmanagh			4	Sligo		0	
lway			ã	Tipperary .		0	
rry			28	Tyrone .		55	
dare			32	Tyrone		94	
kenny			0.4	Waterford		44	
ıg's Cou			26	West Meath		1	
trim	uity		37	Wexford .		93	
			0				

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It will be noted that the distribution of the samples over the

various counties is a very uneven one, but it by no means follows that because four or no samples were sent in from particular the reds in use in such counties are above reproach counting the prodiction of the production of the

The accompanying table is a summary of the results of the tests for purity and germination of the various kinds of seeds (excluding those examined under the Act) made during the year:—

	No. of	Purity.			Germination.			
Name of Secd.	Samples Tested.	Highest.	Lowest.	Average.	Highest.	Lowest.	Average	
Wheat, Oate,	30 103 43 139 154 219 219 219 219 219 219 219 219 219 219	100 100 100 100 100 100 93'1 100'7 100'7 100'7 99'4 93'4 99'5 99'5 100 100 100 100 100 100	99 6 6 100 100 100 100 100 100 100 100 100	100	99 99 99 93 94 98 18 97 97 97 97 98 82 10 98 83 10 10 10 10 10 10 10 10 10 10 10 10 10	22 8 84 23 64 23 64 24 64 64 64 64 64 64 64 64 64 64 64 64 64	80 85 85 81 81 81 81 81 81 81 81 81 81 81 81 81	

Wheat:—There were many good samples germinating 90 per cent. and over; one-third, however, of the samples tested were of inferior quality, two of them germinating only 31 per cent. and 22 per cent. respectively.

Oats:—About half the samples tested were very good, but, as in the previous year, many of the remainder were inferior, germinations such as 64 per cent., 58 per cent., 49 per cent.,

germinations state as 80 Feb (e.g., 80 Feb)(e.g., 80 Feb (e.g., 80 Feb (e.g., 80 Feb)(e.g., 80 Feb (

Rye:—A few samples only were tested and in only one instance could the germination be looked upon as being really first-class. There were three very unsatisfactory samples germinating only 46 per cent., 24 per cent., 28 per cent. respectively.

Perennial Rye:—The purity in the majority of eases was very satisfactory, but the same cannot be said as regards germination, for only seventeen out of 189 samples tested germinated 90 per cent. and over, while in some cases the germination was as low as 58 per cent., 56 per cent., 45 per cent., and 40 per cent.

Italian Rye:—The purity was, with one or two exceptions, very satisfactory, but the germination in the majority of cases somewhat low—only ten out of 154 samples tested germinating 90 per cent. and over.

Meadow Foxiail:—The purity was very satisfactory, but as is usually the case, the majority of the samples tested were of low germination, only one sample germinating over 70 per cent.

Meadow Fescue:—The purity of all the samples tested was safetactory, and the average germination was much better than in the previous year, being 16 per cent. higher. There were two inferior samples germinating 47 per cent. and 59 per cent. respectively.

Timothy:—The purity was, on the whole, satisfactory, but only eight out of the 51 samples tested germinated 90 per cent. and over. Several of the samples germinated only about 70 per cent. or less.

Cocksjoot:—The average germination was 5 per cent. higher than in the previous year. Seven of the samples germinated 90 per cent. and over, but more than 50 per cent. of them gave low germination results. The purity was, on the whole, good.

Crested Dogstail:—The purity was, on the whole, good.

Crested Dogstail:—The purity was very satisfactory, and the germination of the majority of samples fairly so. There were two inferior samples germinating 42 per cent. and 36 per cent. respectively.

Red Closer:—The average germination was 4 per cent. and the average purity 3 per cent. higher than in the previous year. The majority of the samples tested were of satisfactory germination; a few, however, were not so good, the results being only 15 per cent., 69 per cent., 68 per cent. and 56 per cent. Only 6 per cent. of the samples contained seeds of Dodder as compared with 22 per cent. in the previous year.

White Clover:—Much of the white clover tested was of low germination, and contained an exceptionally large number of hard's seeds. Only six samples germinated 90 per cent. and over. The purity of nearly all the samples was, however, satisfactory.

Alsike: The average purity was the same as in the previous year, and the average germination 2 per cent. higher. About one-third of the samples tested were of first class quality.

Trejoil:—Only six samples were tested and four of these germinated exceedingly badly. The purity of three of the samples left a good deal to be desired.

Mangel:—The germination of this seed was considerably better than in the previous year. More than two-thirds of the samples tested germinated over 100 per cent. as compared with one-third in the previous year. Two very bad samples were received which germinated only 40 per cent. and 17 per cent. respectively. Swede, Turnip, Rape :- As is usually the case with these seeds, the purity and germination were satisfactory, two only of the

samples tested being decidedly bad.

Flax:—A greater number of samples of this seed was tested than in the previous year, viz :- 440 as compared with 271. The purity was quite satisfactory with one exception-twothirds of the samples germinated over 90 per cent. Two samples were decidedly bad, germinating 50 per cent. and 39 per cent. respectively, and the remainder of the samples were of unsatisfactory germination. Cabbage:—About half of the samples tested were satisfactory,

the remainder being very inferior, the germination in some cases being as low as 39 per cent., 34 per cent., 29 per cent. and 22 per cent.

Carrot: - The four samples tested were satisfactory with regard

to purity, but the germination was poor, the best sample germinating only 58 per cent. Parsnip: The samples of this seed were pure, but the germination was only 67 per cent. and 47 per cent. in the two

cases. Vetches:—The purity and germination of the majority of the samples tested was satisfactory. There was only one really bad sample which germinated 48 per cent.

In view of the many complaints regarding losses caused by diseases in the potato crop, especially in the

west of Ireland, it was decided to establish INVESTIGATION a temporary research station in that part OF POTATO of the country where investigations as to the DISEASES. causes of the various diseases could be

carried out, and trials of remedial and preventive measures made. The centre selected was Clifden, county Galway, and the work, which is still in progress, was commenced there in the Spring of 1909.

In addition to carrying out spraying and other experimental work in connection with ordinary potato blight, the following diseases have been studied in more or less detail, viz. :-- "Yellow Blight," "Black Stalk Rot," "Stalk (or Sclerotium) Disease," "Spongospora Scab," and "Leaf Roll and Curl"; while certain forms of rot in the tubers, due to causes not yet fully ascertained, are also undergoing detailed study.

As a result of the work, a large amount of valuable information has been gathered concerning the various diseases to which the potato is subject in Ireland, and illustrated accounts of the results already obtained have been published in the Department's JOURNAL (Vol. X., No. 2, Jan., 1910, and Vol. XI. No. 3, April, 1911). Further reports of the work as it progresses will be published in the JOURNAL.

The training of foresters at Avondale forestry station was continued on the lines followed in previous years. Twelve acres were planted and additions were made to the forest plots.

additions were made to the forest plots.

About 50,000 young trees were supplied from the station nurseries to other forestry centres under the Department. Several
useful specimens were added to the museum collection during
the year.

The usual annual examination for forestry apprenticeships was held in September, 1910. The prospectus of this examination is printed at page 226 of the appendices. The minimum age innut for candidates was reduced from twenty to eighteen, and a consideration of twenty-dive was fixed. Six applicants were selected finant of twenty-dive was fixed. Six applicants were selected from the constant in certain the constant of the consta

The following table gives the areas of woodlands and lands adapted for forestry which have been acquired by the Department as forestry stations with the aid of the Vote of £6,000 per annum made by Parliament for this purpose:—

Centre	Date of acquisition by Department	Area
Dundrum, co. Tipperary, Camolin, co. Wexford, Aghrane, co. Galway, Aghrane, co. Galway, Sandery, Ballicotough, co. Cawan, Ballicotough, co. Cawan, Ballicotough, Knockmany, co. Tyrone, Baumregh, Qaceti s county Woodford, co. Galway, Kiirush, co. Clare,	19-6-1908 7-8-1908 28-1-1910 28-4-1910 17-11-1910 10-3-1911 20-6-1911 14-7-1911 Total,	A. B. F. 1,196 2 23 646 1 25 1,277 0 36 404 3 6 253 2 15 467 0 9 1,926 3 22 433 0 31 *406 0 11 7,011 3 18

<sup>\*</sup> Department have received possession to date of only 386s., 1r., 23p., at this centre.

During the season about thirty acres were planted at Dundrum, thirty-five acres at Camolin, forty acres at Aghrane, and fifteen acres at Bailieborough. At the stations acquired during the year the principal work consisted in erecting and repairing fences, laying out nurseries, and draining land, preparatory to planting. The demand for sawn timber at the Dundrum sawmill continued to be good and satisfactory prices were received. Preparations are being made at Camolin and Aghrane for the

erection of saw-mills. Reference was made in the last Report to the application of the Department for a grant for forestry in Ireland from the Development Fund. The Development Commissioners have recommended that advances not exceeding £25,000 in all be made as they may from time to time be required, for the purchase of certain areas available for afforestation. The advances to be by way of loan, not repayable and bearing no interest for thirty years: the question of requiring interest and provision for repayment will be further considered at the end of that period. The Treasury have approved these recommendations and the Department are at present in negotiation for the purchase of afforestable lands with the aid of the money thus provided. As in previous years the services of the Department's forestry

expert were availed of very fully by private owners and public bodies. So far as work in the Department's woods admitted, the working foresters, trained by the Department, were placed at the disposal of persons undertaking planting or other forestry operations. In such cases the foresters' wages were paid by the

persons employing them.

A large number of applications by letter for advice in forestry matters were received and dealt with during the year, and the

leaflets on forestry subjects were widely distributed. The leaflets and a series of articles on forestry subjects which had appeared in the Department's Journal were re-issued in

pamphlet form, with numerous illustrations. This pamphlet should meet the requirements of tree planters and owners of woods who desire to have in handy form a collection of practical notes on the chief points to be considered in connection with the formation, management and protection of woodlands in Ireland.

Thirty-two applications from purchasers of holdings under the Irish Land Acts for the consent of the Department under the provisions of Section 32 of the Act of 1909 to the felling of trees on their holdings, were received during the year. After careful investigation the Department acceded in full to eighteen of these applications and in part to two. In the remaining twelve cases investigations had not been completed at the close of the year under review.

 Credit Societies.—The total amount issued in loans for these purposes during the year ended 30th September, 1911, was £231. The three agricul-LOANS FOR tural credit societies obtaining these loans AGRICULTURAL had previously obtained advances of a PURPOSES. similar kind. From 1900 to 80th September 1911, a sum of £18,142 had been issued on loan to 170 Societies,

and of this sum £8,271 was outstanding on the latter date.

- As in previous years, a few loans were withdrawn by the Department for various reasons.
- Thistle Cutters.—One loan of £9 was granted for the purchase of a Thistle cutting machine.
- 8. Feneing.—During the year, 101 applications for loans were received. Four of these were subsequently withdrawn or cancelled, and thirty-seven were still under consideration at the end of the year. The applications received included several from county Kerry, where arrangements are being made to cnable the farmers in the congested districts take advantage of the scheme. The total number of loans granted, including of the previous year was 80, the amount involved being £1,277. The extent to which the scheme has been availed of is set forth in the accompanying Table:—

Year ended 30th Sept.	No. of applica- tions	No. of applica- tions withdrawn	No. of applica- tions under con- sideration on 30-9-11	No. of Loans granted	Amount of Loans granted
1907,) 1908, 1909,)	170 97	20	- 2	156 63	£2,771
Totals,	368	30	37 39	299	£1,277

- 4. Hand Separators.—The number of hand separators purchased during the year under this scheme was 13, the cost of which amounted to £108. These were supplied to 11 applicants in county Cork and 2 in county Kerry.
- 5. Horse Spraying Machines.—In connection with this scheme, twenty-four loans were granted during the past year, the amount expended being \$206. As in previous years, the applicant in each case agreed to hire the machine to others in his district at fees fixed by the county committees of agriculture and approved by the Department.
- In addition, the Armagh, Cavan, Dublin, Longford, and Mayo county committees purchased, with the Department's consent, 186 knapsack sprayers for hire to small farmers and others in the counties named, at a small daily charge. The cost of these machines was borne by the joint fund of the county committees concerned.

- Meal Mills, etc.—No loans were granted under this scheme during the past year, as none of the applications received were proceeded with.
- Village Halls.—Loans amounting to £450 were advanced in the cases of two approved applications mentioned in last year's Report. An application received and approved during the year was ultimately withdrawn.

See page 277 of the Appendices.

## 2.—TECHNICAL INSTRUCTION.

This section of the Report covers the Academic Year, 1st August, 1910, to 31st July, 1911. Many important matters connected with the Department's operations in the different districts are dealt with in the Reports of the Inspectors, which will be found elsewhere under this section. Certain questions of general interest are, however, dealt with here.

The revised Regulations for the administration of the Science and Art Grants in Technical Schools and GRANTS FOR TECHNICAL now been in operation for five years and INSTRICTION. have been found to work well. Two great

principles were embodied in them; (1) the payment of grants for organised courses of instruction, and (2) an increased rate of payment for prolonged attendance. The effect of the introduction of the "Course" system has been wholly beneficial, and the schemes of work in Urban centres, both large and small, have been rendered much more efficient as a result of this provision. It was always recognised that such a scheme could not be introduced into sparsely populated districts where the conditions are unfavourable to the introduction of highly organised schemes of instruction. It was: nevertheless, evident that excellent and highly necessary teaching is carried on in numerous centres in the Rural districts of Ireland, and the Department were glad to be in a position to announce that Treasury sanction had been given to a supplementary scheme under which grants on a lower scale of payment might be paid for single subjects, and it is anticipated that this new provision will have a very beneficial effect upon the teaching in small centres.

The Department, in making grants in aid of instruction under its various programmes, have never made EXAMINATIONS. written examinations a criterion, but have sought by means of a thorough system of inspection to adjust the aid to the character and amount of work done. As a result, local authorities, and schools not under local

authorities, have thus been enabled to adapt their curricula to local needs, and this has produced an encouraging diversity in the type of schools which have been developed in connection with the Department. Schools have, nevertheless, been anxious to avail themselves of the examinations of the Board of Education and other examining bodies, and the Department have extended considerable facilities to schools in order to enable them to make use of these examinations. Indeed the Department have recognised certain of these examinations as a qualification for teachers working under their schemes. The Board of Education have, however, recently effected extensive changes in their system of examinations, and these changes are such that the Department can no longer make use of them to the same extent as formerly. They have, therefore, found it necessary to take into consideration a scheme for an examination system adapted to the conditions of their own programmes. This matter is now being dealt with.

The schemes of Technical Instruction administered by local authorities throughout Ireland continue to SCHEMES UNDER do excellent work. Reference has been

LOCAL AUTHORITIES. made in previous reports to the serious want
of suitable buildings of a permanent character. Already a number of new buildings have been provided,

and the cost of erection is being paid out of the annual income of the schemes. This, however, very seriously interferes with the development of the educational work undertaken by the various authorities.

Attention may be drawn to the continued success of the system

of Hinemat Instruction under County Schemes. The courses consist principally of Manual Instruction for male students and Domestic Economy for women students, and these courses have grown in popularity and usefulness. There is little doubt that they contribute in a large measure to the amelioration of the conditions of rural life. The extension of the work is hindered by the want of suitable accommodation in which to hold the classes, but some improvement had an pertable revolent house with a canvas roof, and it is hoped that this experiment will prove successful.

prove successful.

It may be remarked that the new scheme of Technical and
Apprenticeship Scholarships for Boys has already been adopted
by a number of counties, and it is hoped that the scheme will
prove very beneficial.

The following table shews the number of students (with their occupations) attending instruction in the four provinces:—

Table showing the Occupations of Studente attending Urban and County Schools and Classes in Non-Agricultural Subjects.

Occupations of Students	Leinster	Munster	Ulster	Con- naught	Totals
YOUNG MEN.					
Persons engaged in Farming	653	395	808	615	2,471
Occupations.  Building   Trades—including Workers in Wood, &c.	324	438	433	64	1,259
Coach and Car Builders,	23	37	14	7	81
Engineers, Workers in Metal, Draughtsmen, &c.	405	230	877	5	1,517
Architects, Surveyors, Civil Engineers, &c.	37	43	67		147
Electrical Engineers, Scientific Instrument Makers, &c.	94	76	94	2	266
Printing Trades—Composi- tors, Lithographers, &c.	75	48	90	14	227
Textile Industries—Designers, Weavers, &c.	53	26	574	, 14	667
Painters and Decorators,	57.	60	90	23	230
Plumbers, Gasfitters, &c	58	52	77	5	192
Trades involving applied Art  —Jewellers, Furniture  Makers, &c.	33	54	55	18	160
Chemists, Analysts, Drug-	55	49	126	8	238
gists, &c. Salesmen, Shopkespers, Ware- housemen, &c.	317	302	701	87	1,407
Clerks in Commercial Offices, .	538	314	837	32	1,721
Clerks in Banks, Civil Service, Law, Assurance and Ac- countants' Offices.	235	108	224	3	570
Teachers, Assistant Teachers, Pupil Teachers.	150	208	314	75	747
Students (University, Law, and Medical).	78	36	54	45	213
Occupations not included in the above classes.	587	289	517	28	1,421
Boys just left School or College.	147	150	128	12	437
Boys still in attendance at School or College.	732	1,016	600	178	2,526
No Occupation stated, .	266	244	243	. 92	845
TOTAL NUMBER OF YOUNG MEN.	4,917	4,175	6,923	1,327	17,342
Corresponding Numbers for 1909-10.	4,936	4,338	6,515	995	16,784

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## OCCUPATIONS OF STUDENTS-continued.

OCCUPATIONS OF	DICDE				
Occupations of Students	Lelaste	Munster	Ulster	Con- naught	Totals
YOUNG WOMEN.					
Persons engaged in Farming Occupations.	959	1,826	1,301	1,281	5,367
Domestic Servants,	596	379	546	84	1,605
Printing Trades,	13	5	19	-	37
Dressmakers, Milliners, &c.	175	167	384	40	766
Textile Industries—Designers,	148	1	426	16	591
Weavers, &c. Factory Workers not in-	95	16	535	3	649
cluded in above. Workers in Lace, Crochet, Embroidery, Sprigging,		506	1,167	202	2,096
Drawn Thread Work, &c. Saleswomen, Shopkeepers, &c.	278	478	473	105	1,334
Clerks, Cashiers, Civil Ser-	319	120	623	30	1,092
vants, &c. Teachers, Assistant Teachers, Pupil Teachers.	433	439	1,059	162	2,093
Students (University, Medical)	19	17	81	-	117
Occupations not included in	526	469	665	215	1,875
above Classes. Girls just left School or	242	288	214	17	761
College. Girls still in attendance at	696	975	753	395	2,819
School or College. No Occupation stated,	1,130	1,147	2,188	300	4,765
TOTAL NUMBER OF YOUNG WOMEN.	5,850	6,833	10,434	2,850	25,967
Corresponding Numbers for 1809-10	6,408	7,122	9,397	3,198	26,125
Total Number of Students,	10,767	11,008	17,857	4,177	43,309
Corresponding Numbers for 1909-10.	11,344	11,460	15,912	4,193	42,909

Reference will be found in the reports of Inspectors to Home Industries Classes conducted under the HOME AND RURAL Department's Schemes. Particular reference may be made to the successful ex-

periment of developing the glove making industry in Tipperary. These classes have been in operation for several years in connection with the industry and have had the effect of employing a large amount of female labour in healthy occupation. In addition, a certain number of boys are employed in the cutting branch, and these follow a regular course of apprenticeship. Independently of such efforts made in connection with local authorities, the Department have given a large amount of direct aid to rural industries. Particular attention may be directed to the Machine Embroidery School which has been established at Ballydougan near Gilford in County Down. The rural industry known as "Sprigging" has, for some years past, declined. A part cause is doubtless the growth of machine embroidery in Switzerland. For many years past a large amount of Irish cambric has been sent from the north of Ireland to Switzerland to be embroidered by machine. The goods are then returned to this country for sale. The Department arranged a detailed inquiry into the conditions under which this industry was carried on in Switzerland. and came to the conclusion that there was no reason why such an industry should not be developed in this country, not with a view of supplanting the hand industry which is still carried on, but with a view to the increased demand for embroidered goods executed by machine. They therefore encouraged the establishment of an embroidery school in which the machine embroidery as carried on in Switzerland is taught, and have approved the establishment of a second school at Maghera in County Londonderry. The school at Ballydougan has already given most satisfactory proof of its usefulness, and it is confidently hoped that it will contribute to the growth of this industry, which is one which may be carried on satisfactorily under rural conditions.

The work done under the Department's Programme for Secondary Scholos is making satisfactory progress.

schools the Department believe that the subjects of their programme have come to take a due and that the balance and their programme have some to take a due in the curriculum of Secondary Schools of the curriculum is satisfactory. They note with regret some

decline in the schools taking Manual instruction.

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The following table shows the growth and present position of the work in Secondary Schools:—

		No. of Course	s, and upo	vho works on account e payable	of whom	h thoi grants	
Province and Year.	No. of Schools.	Prelim- inary Course, lat Year.	Prelim- inary Course, 2nd Year.	Special Courses, 3rd Year,	Special Courses, 4th Year.	Totals (Indi- vidual Pupils).	Amount of Grants Barned.
LEINSTER. 1901-2, 1904-5, 1907-8, 1909-10, 1910-11,	66 103 111 108 108	2,732 2,128 2,406 2,359 2,590	1,363 1,721 1,785 1,685	468 799 991 1,096	119 246 294 243	2,732 4,078 5,136 5,389 5,545	£ s. d. 3,932 3 11 7,530 19 0 9,951 2 9 10,593 13 1 10,650 0 0
MUNSTER. 1901-2, . 1904-5, . 1907-8, . 1909-10, . 1910-11, .	39 70 82 81 82	2,098 1,507 1,905 1,720 1,818	867 1,285 1,227 1,199	384 619 745 717	-52 128 212 160	2,098 2,810 3,924 3,852 4,080	2,943 9 4 5,350 7 1 7,286 14 11 7,074 13 4 7,170 0 0
ULSTER. 1901-2, 1904-5, 1907-8, 1909-10, 1910-11,	42 68 77 78 79	1,596 1,184 1,520 1,628 1,503	735 1,103 1,132 1,219	315 491 555 574	81 119 145 151	1,596 2,315 3,211 3,434 3,422	2,431 7 0 5,316 8 8 7,676 19 0 8,067 5 7 8,440 0 0
CONNAUGHT 1901-2, 1904-5, 1907-8, 1909-10, 1910-11,	7 15 19 16 16	189 272 382 306 277	201 276 239 202	100 150 157 116	15 38 38 16	189 588 844 731 611	268 10 5 1,219 8 11 1,810 8 6 1,848 0 1 1,740 0 0
TOTALS, 1901-2, 1904-5, 1907-8, 1909-10, 1910-11,	154 256 289 283 283	6,615 5,091 6,213 6,013 6,188	3,166 4,385 4,383 4,305	1,267 2,059 2,448 2,503	267 531 689 570	6,615 9,791 13,115 13,406 13,658	9,575 10 8 19,417 3 8 26,725 5 2 27,583 12 1 28,000 0 0

The figures for the Session 1910-11 are approximations only.

## Mr. Vickers Dixon, Senior Inspector, reports:-

## SECONDARY SCHOOLS.

The number of schools working under the Department's regulations for earning grants for teaching Experimental Science, Drawing, Domestic Economy and Manual Instruction was practically the same as in the previous session, and it includes almost all the schools working in connection with the Intermediate Education Board, and some twenty others.

with the Intermediate Education Board, and some twenty others.

The numbers of schools taking the different subjects of the programme are as follows:—

Introdu	ctory Co	urse, ls	t year.		 279
.,	٠,,	2n	d year,		 272
Special					 120
**	,,	Physics,			 55
22	,,	Mechan			 16
22	,,	Drawing			 73
22	,,	Botany,			 22
**				Hygiene,	 22
**		Domest	ic Econ	omy,	 48
Auxiliar		**			 29
,,	,,	Manual	Instrue	tion,	 73

From these figures is will be seen that Chemistry is by far the most popular subject. It is not easy to account for this popularity over Physics and Mechanics, as both are as important in a University Course as Chemistry, and their applications to many of the numericatoring industries are more modify, recognised. In this case, the contract of the contract of the contract of the country of the contract of the contract of the contract of the country of Mechanics could be number taking Chemistry.

The standard attained in Science subjects was quite equal to that of the previous session. No serious improvement in the Special Courses can be expected till the schools can accomplish more in the Introductory Courses. In these courses too much time has to be given to arithmetical questions and to the revision of the pupils' notes, owing to the previous indifferent training of the nouslis in Arithmetic and English. This defectives

training has been noted in previous reports.

Far schools have a sufficient number of sedence cleases to putify the Erys schools have a sufficient number of sedence cleases to reliable the sufficient number of the sufficient of the sufficient control of the sufficient clean to the sufficient c

There is still a tendency to place too much importance upon a knowledge of the facts to be identification the different spitabases insisted of how the form of the control of the different spitabases insisted of how the to method, accuracy, and mastines in manipulating apparetus. "Nearly" and "kool," as for two frees necessities accuracy, and indiced the sort of the control of does not promote or feater a scientific feeling. It may be noted here that does not promote or feater a scientific feeling. It may be noted here that does not promote or feater a scientific feeling. It may be noted here that does not promote or feater a scientific feeling. It may be noted here that the control of th

and it is pleasing to note the more favourable attitude of principals towards
this subject of late. While few schools can set apart a special room for

drawing, a number of them (after persuasion) are replacing the old-fashioned long desks by single desks, without which the proper arrangement of the pupils for model drawing is almost impossible. In many schools, Drawing boards and T squares are required both for Geometrical Drawing and for the advanced classes. Where they have been provided for Geometrical Drawing, not only bas more work been accomplished (owing to the facilities for working they afford), but the work is more accurate.

The teaching of Domestic Economy is being slowly, but surely, developed. Wherever it has been introduced into the school curriculum it has become a popular subject with the pupils; and the principals, realising how much can be effected by this subject, are giving increased attention, and pro-

viding better accommodation for it.

There has been a decrease in the number of schools taking Manual Instruction. This, no doubt, is owing to the fact that this subject is not recognised for "Intermediate purposes," rather than the plea of costliness frequently advanced against its adoption. This decrease is regrettable; for, while the subject may not be directly of importance to students preparing for the University or the Civil Service, there are a large number of pupils in the schools—especially those in the rural districts—to whom a course in Manual Instruction would be of direct advantage. Where this subject has been taken it has generally been very well bandled, and the pupils have improved in nestness, accuracy and self-reliance.

#### DAY TRADES PREPARATORY SCHOOLS.

Except at three schools, two in Belfast and one in Pembroke, which have as many pupils as they can accommodate, the numbers attending these schools are small. This is difficult to account for, as the training given in them is thoroughly practical and its value is so fully recognised by employers that boys on leaving the schools, even after a two years' course, find no difficulty in obtaining employment at once, and generally at better remuneration than those from schools where the training is less practical. However, there are some signs of improvement, and as parents recognise the opportunities these schools offer they will be more largely attended.

The promise shown by the school in Clonmel has been realised, and there is every prospect of it becoming a very successful school. Successful beginnings were also made at Ballymena and Londonderry, and although the number of pupils at the last-named school was small, already a very fair number have been enrolled for next session.

The Christian Brothers intend starting a Trades Preparatory School in Cork, where they have excellent equipment for such a school, and, from the position they hold in this city, they should have no difficulty in making it a success.

## TECHNICAL INSTRUCTION UNDER LOCAL AUTHORITIES.

With very few exceptions, there has been an increase in the numbers attending the classes under Local Authorities. This increase has been most marked in the urban centres in Ulster, and, indeed, in many cases has been so great as to present committees with the serious difficulty of providing accommodation for the enlarged classes. It is satisfactory to note that this increase has been due to the influx of serious pupils who propose pursuing their studies for three or more years. That this is so may be

gathered from the following remarks.

There had been a tendency on the part of Committees and teachers to admit, indiscriminately, all pupils, irrespective of their capabilities or previous training, to any class they presented themselves for. As should have been expected, the results were very unsatisfactory. The teachers were unable to give suitable class instruction to all, and the pupils, finding that they did not get what they wanted, ceased to attend the classes. This attitude of the Committees and teachers has to a large extent changed, and more efficient teaching and a more regular attendance of the pupils secured.

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The introduction of the "Course System," under which grants are only payable, for the instruction of pupils who are adequately prepared for it, has resulted in a more careful control of class entries; the formation of Preparatory Courses for those whose previous training is not sufficient to enable them to follow what may be regarded as the special classes. The entry to these Preparatory courses is also controlled, though in a lesser degree. Committees have also recognised that useful work is almost, if not altogether, impossible in very mixed classes, and have in some places, very wisely, decided to refuse admission to day scholars to their evening classes. The pupils are recognising that these regulations have been made for their benefit, and are beginning to place themselves in the hands of principals and teachers as to the course of study they ought to follow.

Committees and principals, recognising that the "Course System" not only makes for educational efficiency, but also that under it they are financially in a better position, are giving more attention to it. Much, however, yet remains to be done before the best results can be obtained under the system. Generally, the schools have attempted too many courses, and have endeavoured to make these courses too wide. In many of the small schools in the urban centres it is impossible to run several courses successfully, or to teach a multiplicity of subjects with the small staif at their disposal. Sounder and more useful work will be done, the local circumstances and requirements having been carefully considered, by deciding not to attempt more than two or three courses; or it may be only one, to which all energies will be devoted and by which the school shall become known. These courses should be clearly defined, and should present continuous schemes of study, designed to extend over four or more years, in progressive syllabuses of instruction—syllabuses not based upon the Programmes of examining bodies, but drafted to meet the special

requirements of the locality.

Probably the gravest defect that can be pointed out in our Technical Schools is that they do not retain their pupils long enough to raise the standard of the artizan and workman in any marked degree. Every year sees large numbers enrolled in the Preparatory and "First Year specialised classes, while the numbers enrolled for the second year are very disappointing, and those for the third and subsequent years are insignificant—and the average attendance of pupils at the specialized classes is scarcely two years. This is a very serious matter, and one that demands the serious consideration of all connected with the Schools. The time, energy and expense given to the early stages of a pupil's education is quite as great as that which would be spent upon the later stages; but these later stages are of far more value to the pupil, and it is to them that we must look for the real improvement of the artizans and workers. With a view to encouraging continued attendance at the Schools, Committees have offered scholarships and prizes to promising pupils—the prizes taking the form of free instruction for the succeeding year together with the necessary books. These inducements, while good, can scarcely be said to produce any effect in the direction intended, except in the case of a very few. The solution of the question is, I believe, to be found in (1) securing the interest and co-operation of employers, and obtaining from them some recognition of the hours spent by their apprentices in the schools, and (2) in providing better graded courses of instruction, with syllabuses dealing with the daily wants of the pupils, taught by teachers with high qualifications and practical experience. The provision of such teachers is a real difficulty with the smaller schools which cannot afford to pay for many whole time officers, and have to take what the locality can provide. It is, however, a matter of regret that the best teachers available have not always been employed. It is but right to add that it is not the small schools

alone that have acted in this short-sighted manner. Special day classes for apprentices have been held in Belfast, Portadown, Fermoy, Clonmel, Limerick and Waterford. The numbers attending these classes have been small, as employers have not as yet recognised that it would be to their own advantage to allow their apprentices the time to attend these classes, and thus become more efficient craftsmen. Except in Belfast, the instruction given in these classes has been of a very element-

ary nature.

The difficulties which arose between the Department and the Borough of Dublin, and which resulted in the withdrawal of the scheme for the year, are referred to elsewhere. Otherwise, all the schemes of the previous year were worked as before. A few of the counties, however, adopted the Department's new Scheme of Scholarships for boys, but the effect of this will not be noticeable till the ensuing session. Special developments and matters of note in connection with these schemes are dealt with by the

District and Special Expert Inspectors in their reports.

The difficulty of providing suitable accommodation for classes still exists, but is being gradually solved in the urban centres by building. The new schools in Cork, Larne, and New Ross were completed during the year, and should be ready for work for the session 1911-12. Navan, Rathmines, and Tralee are preparing to build, and it is boped that no time will be lost in the two last mentioned districts which are urgently in need of better accommodation for their classes.

## Mr. Turnbull, Inspector for the Southern District, reports :-

#### COUNTY SCHEMES.

The gradual development of Technical Instruction in the Counties has arisen from the experience of preceding years; classes and subjects that have been proved to be unsuitable have been discontinued or modified. and those that have been found valuable, educationally, have been expanded and improved. A County Scheme of the simplest type provides manual instruction in Woodwork for young men, and Domestic Economy instruction for young women.

All Counties, except Limerick, had successful courses of manual instruction in operation during the session in urban and rural centres, and at the latter, the equipment was often housed in an old shed, barn, or other disused room in which the class was, perhaps, restricted in size owing to the limited space available for instruction. In these classes were to be found young tradesmen, farmers and labourers, and each student was provided with a place at the bench and a set of tools. Beginners were required to construct a progressive set of models which included the simpler joints, and thus they were taught the use of the ordinary wood-working tools. Students who had attended during previous years were given more advanced exercises. and as far as possible their models were such as could be made use of in their homes. When considerable skill had been acquired, the student was permitted to make a large article, such as a chair, cabinet, wheelbarrow, etc., but in these cases he had to bear the cost of the timber employed. In the earlier stages of work the students are expected first to make drawings in plan, elevation and isometric or oblique projection, of the models to be constructed. It sometimes happens, however, that the older students are diffident about attempting drawing, and occasionally instructors show weakness in permitting these students to proceed without a knowledge of drawing. It is hoped that Instructors will insist upon drawings being made, because this part of the students' work is of fundamental importance and ought to take precedence of mere manual skill in the handling of tools ; they should remember also that the Course is mainly educational and is based upon a sound knowledge of drawing,

In Counties which include urban centres other subjects bearing on the Building Trades were taught by the Manual Instructors. These subjects were Mathematics, Practical Plane and Solid Geometry, Building Construction, Carpentry and Joinery, and in a few cases, Handrailing and Woodcarving. The attendance at those urban courses was variable and depended upon such conditions as the ability of the Instructors to interest their students, the local supply of suitable tradesmen, and the amount of work to keep those tradesmen employed near the centres of instruction.

Such classes cannot be judged by mere numbers in attendance. Much earnest work has been accomplished by individual students who have in consequence become more valuable to their employers and who have sometimes been canabled to obtain situations which they could not have filled unless they had received sound technical instruction.

What the Manual Instructors are doing for the young men of the county, the Instructresses in Domestic Economy are doing for the young women. The well-being of the population depends primarily on the comfort and happiness of the home. In the earlier years of the County Schemes, Cookery, Laundry work and Needlework were taught as isolated subjects, and the success of any class was the result largely of the personal training and taste of the Instructress. Laundry work was the least successful of the three subjects, because teachers often showed their aversion not so much by speech as by action and unsympathetic attitude. There were Instructresses, however, who took up the subject con amore, and these seldom failed to fill their classes and interest their students. In recent years there has been development in the teaching of Domestic Economy in the direction of Household Management in the widest sense; it aims at the training of students in all the subjects that are useful to the housekeeper, such as the care of the house generally with cleaning and renovating, domestic and personal hygiens with lessons in first aid to the injured, and sick nursing, in addition to Cookery, Laundry work and Needlework. The widening of the course had awakened the best interests of the students, and there has been a steady demand for instruction at most of the centres. For this work instructresses must have high aims and high ideals, they must keep in touch with the conditions and requirements of their students and make their instruction suitable to those conditions. Happily, the majority of instructresses are

of such a type. The only County in Munster that has developed Courses of instruction in Commercial subjects is Cork, and this is due to the large number of urban centres and small towns included in its Scheme. The shopkeepers' assistants find that they have much to learn in the classes for Book-keeping and Business Methods. Three Instructors were engaged during the session in various centres throughout the County, and they conducted classes in the afternoons for senior school pupils, and in the evenings for those engaged in business, although the latter classes often included day scholars. The withdrawal of Typewriting at the end of the previous session did not appreciably affect the attendance at these courses, and owing to the limited time at the disposal of each Instructor it would be an advantage in many cases if the Course were confined to Book-keeping and Business Methods. The proportion of students who proceed to a second year course is still too small, and it would be better if the first year students were more strictly selected. It is doubtful whether it is judicious to conduct a class which is composed of day scholars and those engaged in business. In such a class it is impossible to adopt a standard of instruction suitable to all, and the result is often discouraging to the business student. The only effective method is to exclude day scholars from evening classes when provision is

made for their instruction during earlier hours.

The only Consists that provided limitenant Course in Art were Cark.

The only Consists that provided limitenant Course in Art were not assumed the students where certain and others whose daily comparison could be improved by the application of good drawing and design. In Fermy and Youghal there has been a stooly development of Art we implied against the contract of the contract teaching must develop if it is to capture the interests of the people. In its representation of the contract of the people. In the contract of the contract of

and craftsmen.

The County Industries that have been developed educationally are those in Lace and Crochet-making, Hosiery and Needlework, including Dress-making and Home-sewing. These industries were continued mainly at

Convent centres, but there were a few short sources in Laos and Crochelwork conducted by the Committee's intractures in 10.0 Cerk. Name of these industries is self-supporting, but the wages examed by many of the workers are as good as they would reselve in other industries, and in name, cases expert workers are able to make Crochet in their own homes during their lesiure hours. Care is taken at most of those contract to give the workers instruction in drawing and design, and at all the permanent courses the workers must undergo systematic training in Colory and other

household subjects. The Residential Schools of Domestic Training are situated at Dunmanway, Carrick-on-Suir and Dundrum, and are managed by Convent authorities. Each of these schools has one or more fully qualified lay teachers most of whom are appointed and paid by the County Committees, and these teachers are responsible for the main subjects of the course. The students are the daughters of farmers and workmen; they are trained in all household duties, and their course is essentially practical. In addition, there is instruction in poultry-keeping, and, in some cases, dairying, pig-rearing and gardening. The Course is not intended to qualify students for teaching, hut after a year in residence, each student is expected to return to her own home to practise and disseminate the knowledge she has acquired. Formerly many students were supported in these schools by means of county scholarships, but the County Cork Committee have withdrawn their scholarships, and now the Dunmanway school is filled with fee-paying students from various counties. There is a fourth Residential School of a higher type managed by the Ursuline Convent at Waterford. The fees are higher and the training of a different character than at the three other schools, and the students, who are fee-paying, take the course after having received a good general education of a secondary character. The course consists of the ordinary household subjects and gardening, and due attention is paid to instruction in literary subjects.

Counties Kerry, Limerick, Tupperary (N.R.), and Waterford continued heir system of subolarships to primary school knys to enable them to attend Secondary or Day Tredes Preparatory Schools, only such schools being matter, and the such schools of the such schools have been such as matter, developed and manual interaction. This scheme has now been replaced by a revised schome issued by the Department, but holders of the school of the school of the school of the school of the backets and the intuitify it—to extant hots school-spike for another was.

## CITY AND URBAN SCHEMES.

During the session the new Technical Institutes at Cork and Limerick were under contraction, and approximate completion in readments for the opening of the session, 1911-12. The Waterford and Glomms behood underrendered the session of the contraction of the contraction of the respectively, and contributed towards more efficiently technical. These was compelled for another session to continue its classes in rooms which are very mustatable and indechagates for the purpose. The solones in Trippears was compelled for another session to continue its classes in rooms which are very mustatable and indechagates for the purpose. The solones in Trippears house the classes, and until such a school of sentiable of the settlement of students will be affected adversely. The Quesarious associal similarly an engineering contre, and the sequipment and accommodation for that course of the contraction of the c

The introduction of the Course system has had a hencefulal effect on the Trades' classes, and in most esses the technical education of young men is concurrent with their period of apprenticeship. That is perhaps one of the most important features of the later development of the system, and apprentices in some firms are now encouraged by their employers to undergo were continued at Limerick. Waterford, and Perprov. According to this scheme, employers in the Building, Engineering and other trades permit their apprentices to attend classes at the Technical Schools during the day time, and attendance at these classes counts as time spent at the works-Those apprentices attend also for instruction at evening meetings, and one amployer grants a further concession by permitting his apprentices to start work at a later hour than usual on the morning following an evening attendance. The progress made by apprentices is generally slow during the first year because of their unpreparedness in Mathematics when they come to the Technical School, and it is difficult to convince them that a sound knowledge of the more special subjects which bear on their trades is impossible without a careful and prolonged study of Mathematics.

In the large schools there are always students who take up the higher branches and subjects in Pure and Applied Science, such as Physics and Chemistry, Builders' Quantities, Telegraphy, Telephony and Electrical Engineering, and although many of these classes have been small because of the limited constituency from which they could be formed, yet the students worked well and derived much benefit from their theoretical and practical studies. During the past session, Courses for Bootmakers, Plumbers, Printers, Gardeners, Painters and Decorators were continued at Cork, and for Tailors' Cutters at Cork and Limerick. In many of these courses the students are handicapped by defective elementary education, and they soldom realise that in addition to attending their special trade class they ought also to study some branch of Art or Science which underlies

the practice of their respective callings. The courses in Domestic Economy were well organised at Clonmel, Tralce and Waterford. At Cork, due provision was made for a sound course in Dressmaking and Millinery, but Cookery was taught in isolated classes, no course having been arranged owing to the lack of suitable accommodation. At Limerick, where women's subjects have been taught at three centres in addition to the Central Institute, only one centre provided organised courses of instruction in Cookery, Laundry work and Hygiene. The new schools at Cork and Limerick will give the opportunity for a thorough revision of the

courses in Domestic Economy. Art instruction was continued as formerly in Schools of Art at Cork, Limerick, and Waterford, and in classes at Clonmel, Queenstown, Tipperary and Tralee. These schools and classes are in the transition stage between the former practice of giving instruction in pure art only, and the new trend towards art as applied to the Crafts. There are many indications that tradesmen and craftsmen are awakening to the necessity for a knowledge of Applied Art as a means of improving their own handiwork. The Schools of Commerce at Cork and Limerick and the Commercial Courses at Clonnol, Queenstown, Tipperary and Trales showed generally a good attendance, more particularly where specially trained teachers were employed. It may be stated broadly that the commercial teachers who most secure the confidence of their students are those who have had business experience in good houses prior to their special course of training; they are able to draw upon their experience in giving examples, and their ready knowledge of correct procedure in actual practice gives confidence to the business students placed under their charge. All of these schools were not equally successful, and where the classes were small or the attendance irregular the main cause was traceable to the teacher. The Cork School of Commerce was very efficiently organised, and the attendance and work of the session were better than in the preceding year. The Limerick school passed through its second session, which did not, however, realise the hopes raised by the good beginning in the previous year. The number of students who proceeded to second year studies was not commensurate with the large number who had enrolled during the first session. It will be found best, perhaps, in each of these schools, to reserve the later classes for business people only, and to make arrangements in earlier classes for the type of student who has just left school. Notwithstanding any small defects it has been amply demonstrated that the employment of highly qualified Commercial Instructors has raised the standard of Com,

mercial teaching, and where such teachers have been employed, students in business have been attracted by the soundness of the instruction given.

#### SECONDARY SCHOOLS.

The Secondary Schools took advantage very largely of the permission to allow nunits to repeat a course in Experimental Science. This is recognised as a good measure for those pupils whose brain power is of slow growth, bet there is another feature that is less satisfactory, viz., the premature passing of pupils from the primary to the secondary school. This does not apply necessarily to those of tender years, for there is an age limit, but to such as have not been soundly taught in the primary school. A regrettable feature in Boys' Schools is the lessening number taking Manual Instruction in Woodwork. The subject is probably crowded out by others, but the change is to be regretted. On the other hand, the number of Domestic Economy Courses is increasing in Girls' Schools, and that is a matter for congratulation. The course is more suitable for girls than many of the advanced subjects in Pure Science, and when it is taken in conjunction with Botany or Physiology and Hygiene it becomes all the more valuable. It means the broadening of education for girls on sound practical lines, and the requirements of the home should have a place in all schemes of education for women.

## PRIMARY SCHOOLS.

Of the forty Primary Schools in the Southern District which undertake to teach Drawing, thirty-sight are 1909 Schools. Mangan Interaction in Woodwork is taught in ten abools of which seven are Industrial. Three of the Woodwork is taught in ten abools of which seven are Industrial. Three of the Primary of the Primary is the Primary of the Primary of the Southern Schools are understatled for the centurey subject, and the data closely as the materiated for the century subject, and the data closely, although some schools have improved in this respect during the last three or four years. Notwithstanding bees developed, sood, and in some sees excollent, excommodation and equipment are, with few exceptions, very satisfactory, and the woodwood generally is according excented and accornably finished.

#### GENERAL.

With the experience of progressive courses of training and past years or experience of teaching, instructors and teachers in the different types of schools have become more valuable, with the result that the properties of the contract of

Whilst occasionally members of Technical Committees visit classes at work and encourage teachers and students, it would tend to further the intecests of Committees' Schemes if a genter number of members were to secertain personally the progress made by classes under their care.

## Dr. Garrer, Inspector for the Northern District, reports :-

Organized achools of the polytechnic type have been conducted at thirtyone centres in Uletre during the past session. These comprise the two larger institutes at Beliaut and Londonderry, sixteen conducted under independent Urban Schemes and Hirtoen under Joint County and Urban Schemes. Of the total, six were new, viz., those at Dromore, Antrim, Ballvdare, Portrush, Clores and Monagshan. The buildings available may now be said to be satisfactory, except is some of the never centree. The new school at Larae has been completed most one and except the said of the Markethouse for use as a school at Armagh, and areasgements have been made for the provision of a said the building at Maghershoft, which we have the said of the Markethouse for use as a school at Armagh, and areasgements have been made for the provision of a suitable building at Maghershoft, which can be said of the sai

vady, and Strabene. The influence of the Course System, which has now been five years in operation, is becoming every year more marked. There is, in the first place, a noticeable growth in the percentage of students enrolled taking organised courses. Two years ago it was unusual to find a school in which more than half of the students were following approved courses, and there were in fact only four such schools in Ulster. During the past session there were twenty-four schools in this position. This shows that the system is becoming rapidly more effective in its operation and that the courses are meeting the requirements of the students. In the second place, the attendance at the classes has become more regular since the system was introduced. The improvement is due to the fact that greater care is taken to prevent the admission of students to classes which they are incapable of deriving profit from. The greater homogeneity of the classes enables greater progress to be made since it creates rivalry between the students and reduces the not inconsiderable difficulties of the teachers. Further, schools are now so much alive to the desirability of fostering regular attendance that they bold out strong inducements in the form of prizes which depend primarily on regularity. It has been noticed in the case of Belfast, where several courses of a very definite character, allowing the student no choice of subjects, have been in operation side by side with similar classes where the students were allowed to group their subjects very much as they pleased, that the attendance was more regular in the course classes. This was borne out by the experience in Limavady and Magherafelt, where a well defined course system has been in operation. In the latter schools the attendance bas been more regular than in any previous session. These facts go to show that the more definite the system of courses, the higher the efficiency. At present there is too much liberty of choice allowed, leading to ill-balanced progress and the neglect of fundamentals without which no solid superstructure of education can be built up.

The most serious feature of the present is, however, the shortness of the time during which most of the students remain at the schools. Taking only those who followed approved courses in any year into consideration-and they are admitted to be the best and most carnest of the students-it is found that in the following year about 50 per cent, have, in many cases, disappeared from the classes. While, therefore, many students continue their studies for four or five years, it is questionable whether the average school life of a qualified student in Ulster exceeds two years. It will be at once evident that in such a brief period the training which can be given is inadequate and that little more than a smattering of information can be obtained by many of those who enter the schools. There is thus a serious waste of effort which it should be the first duty of the schools to prevent. The success of the teaching and the benefits to be derived from it depend primarily on sustained attendance. Indications of improvement are, fortunately, not wanting. At Carrickfergus, Armagh, Ballymoney, and Cookstown, a very creditable proportion of the students are being carried on to more advanced work, and in almost all the other schools the proportion is gradually improving. Thus, in the past two years, the total number approved for the second and higher years of specialisation has almost doubled. That there is still gent toom for insportment is shown almost doubled. That there is still gent toom for insportment of the more than 16 per cent, were eligible for grants for the second time. It is to be regretted that as Newry there is, no fig. on given processes, and initiation of a Local Scholeskip in each of the larger centres to enable the best student of the shoot to proceed to a higher institute would go for the shoot to proceed to a higher institute would go for the shoot of th

In some cases the course system has undoubsely led to's reduction in the number of Thods students, owned to the fact that there previous orders to be compared to the fact that the previous orders. Specialised Courses without first spending a year at Proparatory subjects. To meet the difficulty, Todes students were odnitted in Belfatt to the Tomest the difficulty, Todes students were odnitted in Belfatt to the December of the Specialised Courses without first spending a year at Proparatory unique to the fact that the stendance was not well maintained, and also beause the presence of Ill-prepared students in the Trade classes instruction. The students of the difficulty of probably be found in the recognition of the difficures between "Honds," and "Honds," can be a supplementation of the difficulty of the difficulty of the difficulty of the contraction rescaled.

The students attending the Technical Sebools were generally of a suifable type. Most of them were engaged during the day in various trades, including the most of the surface of the suifable type. The suifable type of th

The work done in the schools shows a growing tendency to conform more closely to the needs of the districts concerned. Thus at Derry, special courses for shirtmakers and laundryworkers are being developed, at Banbridge and Newtownards Textile courses are projected, and at Carrickfergus much needed classes for Painters and Decorators have been carried on. In the more rural centres good classes of young farmers have been secured for woodwork and mathematics as applied to farming operations. These instances taken in conjunction with many of longer standing such as the successful Textile Departments at Belfast and Lungan, show that the local authorities are endeavouring to bring the work of their schools to bear upon local industries. A most satisfactory feature is the fact that Domestic Classes in manufacturing centres are now very largely attended by factory operatives. For some years, difficulty was experienced in getting students of this class to attend, and special efforts were directed towards this endnotably at Banbridge and Newtownards. Now, the demand is so great that it is difficult to meet it, even with increased staff.

that it is difficult to meet it, even with increased staff.

The teaching generally has reached a good standard. Much enthusiaam
has been shown in the work and the instruction has, in nearly all cases,
followed well-planned lines. The individual lessons have also been gener-

ally well prepared and clearly imparted. Where the schools have failed most is in realising the limitation of time referred to above, and in doing what can be done to meet it by the institution of definite courses designed to secure a sound and well-balanced education within the limits imposed one of them.

upon them. In addition to the Evening Classes held in the Schools, a fair amount of day work has also been carried on. Day Trades Preparatory Schools have been conducted at Belfast, Derry, Ballymena, and Portadown, those at Derry and Ballymena being new. Very good work was done in the first three, but the number in attendance at Portadown was too small. The Day Technical School at Belfast was again small, but it contained some good material and was efficiently taught. Its value, providing as it does a wider and more complete training for those who should eventually become the managers and leaders of industrial concerns than can possibly be secured in Evening Classes, has not yet been adequately realised. Numerous Domestic and some Commercial classes have also been held, but the attempt to obtain Day Apprentice Classes still meets with little response from employers. Classes for engineering apprentices at Belfast and Portadown are all that have yet been obtained. Special classes for the further training of National Teachers continued to be in great request. The demand for Science Classes of this type has naturally diminished, but Domestic Economy, Art, and Language Classes have been largely availed of.

## COUNTY SCHEMES.

Each of the nine Counties in Ulster again conducted a Scheme of Tech-

nied Instruction.
All the other desired Down's Schemes deals solely with the Bural District.
All the other desire in addition with the smaller O'ban Discricts within their
area and were conducted by Joint County and U'ban Committees. The
Ballysiace, Poetrah, and the County, was appointed and Technical
Salools were operand in the two Urban centres and Austrin. Funds for the
Darterd of Anterin, and this County, was appointed and Technical
Salools were operand in the two Urban centres and Austrin. Funds for the
Darterd of Anterin, and stillion to the rate at struck over the County at learnThe Scheme was placed under the direction of a Principal. As the larger
Schemes of their orn, it will be seen that the whole County is now well
provided for. The same may be said of the counties Permanal, Lundinord the schools and the County is now well
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The distribution of the County Technical Schools will be seen from the following table:-

	Nu	mber of			the
County.		Joint C	ommitte	e.]	
Antrim,			3		
Fermanagh,			1		
Londonderev.			2		

accounts, correspondence and commercial transactions.

It should also be mentioned that the usefulness of the Training School for Lees and Soriging Teachers, conducted in connection with the Ennis-

Monaghan,

killen Technical School, has been increased in the past session by the provision of Scholarships open to students from any County. These Scholarships were provided by the Department and succeeded in attracting to the

School students from a very wide area.

In addition to the work done in the Technical Schools, a large amount of useful instruction has been given in Itinerant classes. The distribution of the classes is set out in the following table:—

	Number of Courses given in								
COUNTY.	Manual Instruction.	Domestie Subjects.	Drawing.	Commerce.	Total.				
Antrim, Armagh, Cavan, Donegal, Down, Fermanagh, Londonderry, Monaghan, Tyrone,	2 5 10 3 4 5 2 10	8 6 8 11 10 4 4 5	     2	- - - - - - - - 2	10 11 18 14 14 19 6 15 8				
	43	58	2	2	105				

It will be seen from the table that the number of courses given in the Rural Districts of Londonderry and Tyrone was small, but provision is being made for increasing the number in the coming session.

eing made for increasing the number in the coming session.

The instruction was given by thirty whole time teachers, of whom

twolve were also employed in the County Schools.
The afternoon classes in Manual Instruction were attended chiefly by National School pugils who were given a course of woodwork on educations of the afternoon. The vertical classes in the afternoon. The eventual classes in the afternoon. The vertical classes in the afternoon. The violates are great that applicants had to be refused admission. The students on great that applicants had to be refused admission. The students on great that applicants had to be refused admission. The students on great that applicants had not be refused admission. The students on great that applicants had been sourced, and, when a sufficient training in the Spaniquisation of tools had been sourced.

useful articles for farm or home purposes were begun.

The attendance at Domestic Economy Classes was not as regular as could be desired, and the tendency shown by a few of the teachers to allow their classes to dictate the line of progress resulted in ill-graded courses and instruction in unsuitable exercises. On the whole, however,

the work has been satisfactory.

The accommodation for Iniercant Classes has been generally satisfactory. The use of National Schools has been in most cases avoided owing to the many disadvantages connected with them, but there are Tomes the difficulty, the Armagh Committee have constructed a portable house which it is intended to use for such entrees. By conducting a suscession of Woodwork and Domestic Economy courses in the same district is a expected that it will not be reseesary to remove the building intenset and may fined to the solution of a real difficulty, with meaning intensets and may fined to the solution of a real difficulty.

In some Counties—notably Cavan and Down—sufficient use has not been made of Local Committees. The experience gained in other Counties shows that these Committees can be of the greatest service in arrangements for them, and in stimulating regular attendance. Where a good local Committee has been formed, the students are found to join the classes at the beginning and to attend regularly. Industries Classes have been conducted in five Counties- Their

distribution will be seen from the following table :-

COUNTY.	IRISH CROCHET LACE. Number of Centres.	Springers.  Number of Centres.	Total.
Cavan, . Donegal, . Fermanagh, . Monaghan, . Londonderry,	7 5 8 8	5 6 - 2	7 10 14 8 2
	28	13	41

The classes in Londonderry were new; those in Cavan and Fermanagh have made good progress, and in at least 13 of the centres the industries have taken root and are in a flourishing condition. In Monaghan, too many classes have been conducted to enable the teachers in charge to devote sufficient attention to each. In Donegal the classes have been treated very much as itinerant classes, and little care has been taken in the selection of centres; the result has been a very small output for the expenditure, and little improvement is to be expected until a definite and well-considered policy is adopted. The experience gained in Fermanagh and Cavan shows that under the system now in operation, valuable little industries can be built up under capable management-In the best classes, substantial balances have been accumulated with the result that the workers can be paid ready cash for their work; by this means the industries are enabled to hold their own successfully against " trucking."

SECONDARY SCHOOLS. Seventy-eight Schools in Ulster followed the Department's Programme for Secondary Schools. Of these, 33 were Boys' Schools, 30 Girls' Schools, and 15 Mixed Schools. All except seven were Intermediate Schools, five of the seven being Day Trades Preparatory Schools.

The second year course was taught in 73 Schools, and the other courses taken may best be seen from the following table, which shows the number of Schools in which the various courses were taught :-

Course.		3rd Year.	4th Year.	Auxiliary to 1st and 2nd Yesz.
Chemistry,		25	7	_
Physics,	11	20	10	-
Botsny,		11	10	=
Physiology and Hygiene,		6	5	_
Mechanics		5	-	_
Drawing,		29	13	
Domestic Science (Aux.),			_	9
Domestic Science, .		9	7	_
Manual Instruction (Aux.),		_		10
Manual Instruction, .		3	_	

These figures show that there is an increase in the number of schools taking the Chemistry Courses, and an almost corresponding decrease in the number taking Physics. Manual Instruction and Domestic Science are not as widely taught as they should be. In the case of the former subject, its non-recognition by the Intermediate Board acts prejudicially to it. Most of the Schools depend very largely on fees and grants for their maintenance, and the grants paid for Manual Instruction and Domestic Science, being on a lower scale than science subjects, are considered by the schools insufficient.

The Fourth Year Physics Course A., dealing with Wave Motion, Sound, and Light, has not been seriously taken up in the District, only two schools attempting it at all. The Mechanics Course is taken in the Day Trades Preparatory Schools, but not elsewhere except in two cases, and the introduction of mechanics into the Third Year Physics Courses makes

it unlikely that there will be any increase in its popularity.

The efficiency of the teaching may be judged from the fact that while numerous classes received increased grant for conspicuous merit, it was only necessary to reduce the grant for inefficiency in the case of five classes, viz., one in Introductory Physics, one in Fourth Year Physics, one in First Year Drawing, and two in Manual Instruction. This result shows that the general level of the instruction is now satisfactory. and that many successful efforts have been made to secure excellence. The defects which still exist are mainly due to the inexperience of new teachers. It is, however, also true that some of the more experienced teachers neglect to keep their minds fresh and consequently allow their instruction to become stereotyped and uninteresting. Generally speaking, it may be said that the courses are logically developed, and that the spirit of inquiry is kept well to the front. On the other hand, a somewhat narrow view of the courses is taken by many teachers who neglect to consider laboratory observations in their relation to everyday experience and practical applications. Further, the historical development of the sciences has received scant attention; where history has been considered at all, it has generally been taken as something dissociated from the actual work of the classes.

The Botany Courses require special mention because of the fact that their nature renders them liable to very diverse treatment. Unfortunately, some of the teachers are content to obtain a number of somewhat minute examinations of plants and flowers without much consideration of the conclusions to which the observations point and also without much comparison of characteristic similarities and differences of structures The results are that the faculty of deduction is not sufficiently cultivated, and that a very uncertain basis is laid for classification in the Fourth Year. Few of the Schools have made satisfactory provision for the study of growing plants under normal conditions and the deferring of Plant Physiology until the Fourth Year leads to want of clearness of conception regarding vital processes.

#### PRIMARY SCHOOLS.

Twelve Primary Schools followed the Department's Programme of Drawing, two of these talking up the work for the first time. In eight of the schools the award, "excellent," was given; in the four remaining ones the standard was "good." It may be said, generally, that notwithstanding many difficulties the progress made in these schools is surprising and highly creditable. Four of the schools took Manual Instruction in addition to Drawing, and three of these secured the award, "excellent."

Mr. Mocaffery, Inspector for the South Central District, reports: COUNTY SOMEMES.

The schemes for administering the Technical Instruction Act in the county areas of this district remained as they were in the preceding session. In this section of the report it is proposed to deal with the work of the scheme in non-urban areas only, seaving the organised technical scheme, which are centrolled by Joint Committees, to be dealt with fin another. The operations of the schemes comprise (a) Scholarships, (b) Hinderent Instruction, and it will will not be amiss to indicate one direction in which further development of county scheme work is desirable.

There are a number of thriving business centres such as Gorey, Callan, Bagenalstown and Tullow, with populations ranging about 2,000, and which are therefore sufficiently important to have small permanent technical schools in which might be given instruction in elementary commercial subjects as well as in the subjects usually taught by the itinerant instructors. Hitherto it has not been possible to cater for the particular needs of such towns, but with attendance grants available for instruction under the provisions of the Revised Programme, County Committees may well be expected to give greater attention to the peculiar needs of small towns in the future. The first step will naturally be to secure permanent and suitable accommodation for the classes, but this should present no serious difficulty where the people of the locality are prepared to co-operate with the county committees. Something has already been done in this direction in smaller centres than those named, for instance, permanent class accommodation has been secured in Ballyragget with a population of only 500, and plans have been approved for a small technical school for Baltinglass with a population of 900.

# (a) Scholarships. Boys' scholarship schemes were in operation in the counties of Kilkonny

and Curior. The scholarships awarded under the Kilkenny schemes are temble only in the Kilkenny Day Tenda Preparators School, and for this assign to nearly of them were provided as an attendance until their special control of the second provided as a strendance until their three year curves is completed. When the committee first desided to award these scholarships it was feared that scholars coming from a distance might seem to be a superior of the scholars of the scholarship is were schoolarship in the scholarship in the required. The scheme has been in speciation a number of years but the country boys appear to find not manuter has hitther cauched sitch the Chairman or Sorotary of the Committoe from any scholar about to enter the Day Trades Proporatory School.

The Carlow scholarships for boys were tenable at approved secondary. The Carlow scholarships for boys were tenable at approved secondary schools. During the session £160 was expended in providing nineteen first year and five second year scholarships. By a recent regulation of the Department no more scholarships can be awarded under the old conditions, but the Committee have as yet shown no inclination to adopt

the new scholarship scheme.

Demostic Economy subclambigs were awarded under the Worford and Carlow schemes. Under the former there were awarded, on the results of a locally conducted examination, seven subclambigs, all of which were held in the Kilhners School of Demostic Training in the south of the county. The subclaships were swarded by nomination under the Carlow scheme. Of these, there were held in the Maton School, and seven in the Stralabley that the subclaships were swarded by nomination under the Carlow scheme. Of these, there were held in the Maton School, and seven in the Stralabley their human on the completion of their course of trisining, and only occasionally does one become a domestic sevenal.

#### (b) Itinerant Instruction.

The officers directly responsible for organising the work of the schemes in rural areas are whole time teaching Principals in Wicklow, Kilkenny, and Kildare, whilst in Counties Carlow and Wexford the officers are Secre-

taries who are responsible also for the organisation of the work of the Agricultural schemes. In all the counties, however, the details of the work are usually attended to by the itinerant teachers themselves, whose teaching duties have been limited so that they may have sufficient time for the purpose. Where these teachers lack energy and enthusiasm, or where they are not efficiently directed and supervised, the organisation leaves much to be desired. In the work of organisation itself there has been considerable slackness. Organising officers and itinerant teachers visit localities, view premises and interview local people about arrangements without taking adequate notes or making reports sufficiently exhaustive for immediate use or future reference. It is not, therefore, surprising that there are sometimes long delays in preparing premises in new centres for the recention of classes; that repairs to premises frequently bear witness to the looseness and incompleteness of the specifications on which they were carried out, and that classes have sometimes to be opened before they have been sufficiently advertised. Such things were unavoidable in the early days of the schemes, but after the experience of years and with the sum of the difficulties to be overcome in a session a diminishing quantity, they are no longer excusable.

A come of instruction in a temporary centre usually extends over sixty hours and involves thirty two-hour kenoms. This arrangement provides students in a runal district with the opportunity of following a course of interest of the contract of the contrac

The itinerant teachers are expected to give instruction for not less than twenty hown as week. This amount of teaching may seen small, but where the preparation of lessons occupies much time, or the preparation of lessons occupies much time, or the property of the prope

The syllabuses of instruction usually followed in the courses in rural districts up to this have been-two in woodwork and technical drawing (one being for juniors, the other being for adults), one in cookery, housewifery and hygiene, and one in needlework and laundry-work. In many of the centres visited by the Instructors during the session students were enrolled for their second or third course in the same subject, yet it was found that, with a few casual exceptions, these students were required to work through the same syllabus which served first course students. As time goes on the number of students capable of working through advanced syllabuses will become more numerous. It is, therefore, evident that the work carried on in county areas has already sufficiently developed to render necessary the adoption of two-session syllabuses for cookery, needlework and woodwork, and the keeping of careful records of the attendance and progress of each student in each subject of instruction. To facilitate this important and nocessary work an admission register should be provided for each centre and a work register for each class. These should be kept written up to date by the instructors during the courses, and, at their close, filed by the organising officer for future use.

The students attending instruction in rural centres are generally of good type. In some centres, and especially where the classes have been small, the older pupils of the local National Schools have been admitted to classes meeting outside of school bours. Though this may be permissible under the general conditions of the scheme, it may be reprobensible on humanitarian grounds and should not be done without consideration of the circumstances of each nees. By the school of the condition of the circumstances of each nees. By the school of the condition of the circumstances of each nees. By the school of the condition of the circumstances of each need to the condition of the school should not be allowed to attend outside of school hours more than one technical collection of the condition of the condition of the condition of the bours more disable to the condition of the condition of the condition of the bours more disable to the chief most of the day and been at least two bours out of school school and the chief most of the day and been at least two

bours out of school.

My Window there has been a marked falling off from the activity displayed in the true previous sessions in opening up now enteres of instruction. In Wexford this work is proceeding steadily; the school of the proceeding steadily; the school of the proceeding steadily is the number of new contrates person was to be expected in Golbon and Kills kenny where good progress has been made in this direction in former than the school of the school

SUMMARY OF NEW CENTRES OPENED IN LAST THREE SESSIONS.

			Number of new centres opened.					
Count	Y.		In 1908-9.	In 1909-10.	In 1910-11.			
Carlow, Wexford, Kilkenny, Kildare, Wicklow,	:		6 9 8 3	4 7 9 8	2 6 2 2 2			
magow,	•		27	30	14			

During the session the manual instructors have visited twenty-nine centres and conducted forty-eight thirty-lesson courses in woodwork and technical drawing. The courses were distributed amongst the counties as follows:—Külkenuy, 15; Carlow, 9; Wexford, 9; Kildare, 2; Wicklow, 7. The total is eight more than in the pre-coding session, the increase being

mainly due to more energitic organisation.
The instructures have visited thirty-eight centres and given the equivalent of eighty-four complete thirty-lesson courses in domestic economy subjects. The courses were distributed amongst the counties as follows:
Killemay, 22; Wesford, 24; Carlow, 21; Killaber, 11; Wesford, 26; Carlow, 21; Killaber, 11; Wesford, 26; Carlow, 21; Killaber, 11; Wesford, 28; Carlow, 28; Killaber, 11; Wesford, 28; Carlow, 28; Killaber, 11; Wesford, 28; Carlow, 28; Killaber, 11; Wesford, 28; Killaber, 28; Killaber

of the session. The foregoing facts are arranged in the accompanying table and set side by side with the corresponding figures for the session 1999-10. It may be taken for granted that with the exitaing satisfic its searcely possible to cover more ground in a session than that indicated, but that increased attention to organisation can improve the conditions under which the work is carried

on, and help to render the instruction more progressive and the training given more thorough—especially in the domestic economy courses.

SUMMARY OF THE WORK DONE IN TEMPORARY CENTRES IN 1909-10 AND 1916-11.

	ı		190	910.		1910-11.			
COUNTY.		No. of centres visited.	cot	of crses in in	Total No. of courses	No. of centres visited	00	o. of urses en in	Total No. of courses given
			*M.I.	to.n.			*м.т.	†D.Ε.	
Wicklow,		5	7	5	12	6	7	6	13
Wexford,		13		22	28	13	9	24	33
Kilkenny,		20	13	22	35	19	15	22	37
Carlow,		14	9	20	29	12	9	21	30
Kildare,		15	6	18	24	11	8	11	19
Totals,		67	41	87	128	61	48	84	132

A course of Manual Instruction consists of 30 two-hour lessons in woodwork and drawing.
 A course of Domestic Remony may consist of 30 two-hour lessons in

Urban District Schemes, including Technical Schools in County Areas.

The chief obstacles in the way of any marked extension of the operations of the schemes in the urban centres of this district set the difficulties contributed on the scheme in the urban centres of this district set the difficulties contributed on the contributed of qualified teachers to meet the growing needs of the developing ashemes. Good progress has been made in overcoming the accommodation difficulty contributed on the scheme of the contributed of the contribu

The staffing difficulty is not less serious than that of accommodation, and there is not an urban carrier in the distrest which has not experienced it. In some cases the committees have, by arrangement, secured part of the services of whole time offeres employed by other committees; thus the Emiscorthy committee have, since the inexplicin of their schema, been mirrly dependent on the services of visiting teachers employed by other contributions of the contribution of the services of visiting teachers employed by other contributions of the contribution of the c

A course of Domestic Economy may consist of 30 two-hour leasons m either cookery, housewifery and hygiene, or laundry work and needlework.

have been engaged for one or two evenings a week; in this way has been carried on the teaching of art subjects in Bray, Arklow, and Wicklow, and the teaching of commercial subjects in Naas and Carlow. In all these cases, and more or less irrespective of the efficiency of the teachers, the results have left much to be desired. Matters are, bowever, gradually righting themselves. Committees generally are arriving at a fuller sense of the desirability of having their teachers resident in the locality, and this on the score of efficiency as well as from considerations of economy; and those committees who have hitberto lent part of the services of their whole-time officers to other authorities are finding it necessary to retain them altogether to meet the increasing demands for instruction in their own areas. Hence we find the Enniscorthy and New Ross committees appointing new local teachers of preparatory course subjects and placing the work of their respective schemes under expert teaching principals, the Wexford committee deciding to employ a whole-time instructress in domestic economy. and the Kilkenny committee advertising the fact that a local teacher of book-keeping will be appointed as soon as one holding the necessary qualifications is forthcoming. Much good would be done if other committees followed the example of the Kilkenny committee in this respect, and made known more widely the local needs. Possible local candidates would thus he stimulated to seek information regarding the qualifications required and the steps to be taken to obtain them.

Experience has shown that the success of a Technical Instruction scheme in an urban district depends in the first place and mainly upon the energy, enthusiasm and ability of the principal, who is responsible for organising the classes, advising and stimulating students and onergising the staff. Whenever a principal displays traces of inefficiency or flags in his efforts, the results are soon visible in the work of the school. Experience also teaches that a commodious and well-kept central institution exerts considerable influence upon the number of students enrolled for instruction and upon the regularity of their attendance. But for the case of Carlow, it would be unnecessary to make such trite remarks. The Carlow committee have no principal, nor have they a local organiser capable of developing the work of the scheme in the urban district. They are also without the right of exclusive use to any premises. In so far as it refers to the urban area, the scheme is therefore without a local head, and without suitable beadquarters. The work carried on, though not unsatisfactory in some respects, is wanting in the coherence and continuity which should be its distinguishing features in an important centre of population. There is, it must be added, no immediate prospect of improvement, for the committee are slow to recognise the difference between technical classes depending entirely on the members of a local committee for organisation and supervision, and an organised Technical School conducted under an expert principal.

The influence of the Department's Programme for Technical Schools. etc., in securing increased efficiency in the working of the schools has been brought out in many ways during the session. The specialised courses having been planned in previous sessions, and being now more or less settled, it became possible to deal more fully with the syllabuses in use. These have been to a large extent carefully revised and co-ordinated during the session, and the labour expended on them cannot fail to bear fruit in future sessions. The inquiry into the qualifications of students entering upon approved courses of study, necessitated by the regulations, has resulted in the discovery that principals have not always given adequate attention to the drafting of students' application forms, to the verification of the particulars entered thereon, or to the keeping of the admission register written up to date. When, as happened occasionally, it became necessary to make inquiries concerning the progress of individual students, it was found that comparatively little attention had been given to the recording of the progress of students other than those who had sat for external examinations. Few of the teachers have yet realised the value of an accurate record of the marks awarded to students for home work and class work, and few principals have appreciated the necessity

for a sessional school examination to gauge the progress of statemen in the syllabuse settably teagift, so that transvertely record may be compiled for intern reference. In several schools, cases came to light of students having material the statement of the statement of the statement of the several transverse of the progress of a course without having material to work of the precording the stage of a course without having material to to the individuals directly concerned, and are in no vary beneficial to the school. The vortices of the Programme in the future will tend to remedy

such defects in organisation as they arise.

The total number of qualified stindaria pursuing their studies in approved group of subjects has increased during the assist from 25 to 529 pc. group of subjects has increased during the assist from 25 to 529 pc. group of the contract of the contract of the contract of group-course students to population in or the differency of the local and in the main, treatworthy means of gauging the difficiency of the local way of the contract of the cont

The importance of a good preparatory course is becoming more generally recognised, but the organisation and teaching of this course must receive more care and attention before it can properly fulfil the purpose for which it was established, viz., the fitting of students to take up a specialised course of technical instruction. The entries to the preparatory course classes have not been properly controlled in several of the schools. Pupils still in attendance at day schools have been enrolled with students who have been absent from school, and in many cases at work, for a more or less extended period, and whose knowledge of the rules of grammar and arithmetic has, therefore, become dulled or dormant. In the early stages of the course the teacher usually fails to realise his responsibilities in regard to the older, and generally shier and less demonstrative students, and, choosing the line of least resistance, so to say, builds upon the already known or easily discoverable knowledge of the day school pupils and addresses his remarks mainly to them. In doing so, he inadvertently but surely sets up a comparison between the two sections of the class. The average ordinary student soon begins to feel that the class does not meet his needs and frequently withdraws from the school altogether at an early stage of the session. Such a student can scarcely be expected to risk a similar unpleasant and unprofitable experience in a future session. Sufficient has, perhaps, been said on this point to indicate the grave responsibility which committees assume in allowing day school pupils to be enrolled with adolescents in evening classes, and the danger they run of lessening the efficiency of their school in its proper work of providing technical instruction for ordinary students. Moreover, it ought to be remembered that if pupils are receiving due attention in day schools, there are other considerations which render their attendance at late evening classes undesirable. whilst if the case be otherwise, the remedy should be sought for in another direction.

Where the organisation of the preparatory course classes has box satisfactory, as in few schools, the sinse of the spillaness have not always been decreased in the schools, and the subject of the spillaness have not always been consistent in the schools of the spillaness have not always been consistent of the spillaness and the schools and the schools and the schools are spillaness. The spillaness is the school of the spillaness and the spillaness are spillaness and the spillaness and the spillaness and the spillaness are spillaness and the spillaness

The lessons in mathematics are 10t made interesting. Instead of taking up the study of measuration in simple and demonstrational way at the beginning of the measuration in simple and demonstrational way at the beginning of the property of the students into the mass of the fractions from which they do not energe until the observation of the splinks being property treated. In some cases this arises from also-kness in preparation, whilst in others it would appear to proceed from a culpable igenerance of the sales of the splinks.

from a culpulab ignorance of the same of the Symanus.

In a comparison of the same of the Symanus and a comparison of the same of the Symanus and an all rounds as statistatory standard of efficiency has been maintained in the teaching, which closely follows the line laid down for make laid in the teaching which closely follows the line laid down for make laid the same of the

closed. Well considered prize schemes designed to promote regularity in attendance and diligence in study have been adopted and put in operation in all the organized technical schools of the district. They have bead a homefolial influence upon the students, and, indirectly, upon the teachers also, by requiring of them increased attention to the recording of the students.

#### SECONDARY SCHOOLS.

Omitting the Day Trackes Preparatory School, to which reference is made classwhere, there were thirty secondary schools impacted in this districduring the session. Of these, seventions were boy's, eleven were girls, and two well are the secondary schools impacted in the secondary and the secondary schools are seventions, which is a secondary and the secondary schools are seventially sufficient to the secondary and drawing, took advantage of the eppertunity affected by the altered regulations of the Intermediate Education Beaut to discontinuous the secondary schools are secondary schools are secondary schools.

tosching of these subjects.

The first year course in experimental science and drawing were taken in all the schools, and the second year courses in all but one. Manual firstruction was taught as a first year subject in sight schools, the corresponding to the schools, and as a second year subject in sight schools, the corresponding to the schools, and as succeeding the schools, the corresponding to the schools of the schoo

SUMMARY OF PRELIMINARY COURSE CLASSES.

SCHOOLS.	SCIENC	MENTAL DE AND WING.	INSTRU		DOMESTIC ECONOMY.		
	First Year.	Second Year.	First Year.	Second Year.	First Year.	Second Year.	
Boys', . Girls', . Mixed, .	17 11 2	16 11 2	10	<u> </u>	_ 	4	
	30	29	10	8	5	4	

progress.

Specialised courses were taken in all the girls' and mixed schools, and in all but three of the boys' schools. Three special courses were presented in one boys' and four girls' schools; two were presented in three boys' and size girls' schools; two were presented in three boys' and size girls' schools; and a single course in the remaining schools. The number of schools taking up each of the specialised courses will be be seen from the following

SUMMARY OF SPECIALISED COURSE CLASSES.

Spholalibid	Boys' S	CHOOLS.	GIRLS'S	сноотя.	Mixed S	Schools.
Courses.	Third Year.	Fourth Year.		Fourth Year.	Third Year.	Fourth Year.
Chemistry, Physics, Mechanics,	10 3 2	2	=	=	1	1
Drawing, Domestic Economy Physiology and	-4	-	6 11	3 6	-1	Ξ
Hygiene, Botany,	=	=	5 3	3	=	=
Totals, .	19	4	25	13	2	1

The figures given in the foregoing summary do not differ materially from those for the previous year. The only points calling for mention are an increase of one in the number of boys schools taking drawing and in the number of girls' schools taking the same and the fact that domestic economy as a third year course was taken in all the girls' schools.

The standard of the work as a whole was quite satisfactory. Awards were made in respect of two hundred and seven elasses conducted under the Programme. In sixty-seven per cent. of these the normal grant was recommended, in eighteen per cent. the grant was raised for conspicuous merit, and in fifteen per cent. it was reduced for defects of teaching or

organisation or equipment. There was a failing off in the efficiency of the introductory physics course in several girls' schools, owing chiefly to the fact that the subject was now the property of the control of the second of

#### PRIMARY SCHOOLS.

Examinations in Drawing were conducted in the primary departments of three girls' schools and twelve boys' schools. Seven schools presented pupils in Standard V., two in Standard VI., and two in Standard VII. of the pupils entered on the schedules, 86 per cent, were presented for examination.

The girls' schools are all small (the average number of pupils examined in a Standard being only four), and all were classed as Excellent as in the preceding seasion. The beys' schools are all comparatively large. The average number of pupils examined in the various bases were as follows—Standard I., 37; Standard II., 36; Standard III., 32; and Standard IV., 33. Of these schools four were classed as Excellent and eight as Good. This classification indicates an increase in the efficiency three were classed as Excellent and two were only Fair.

Speaking generally of the Drawing in these schools it may be said that a high level of efficiency was resched in Standard II., and in the freehand drawing of Standards III. and V.; whilst, with the exception of the geometrical drawing of Standard V. (which is not, as a rule, well taught), the remainder of the work was good. The pupils of Standard I. worked on paper in all the girls' schools and in a third of the bove'; schools.

## Mr. M'Gann Junior Inspector (West Central District), reports:— County Schumes.

The eight Counties of the West Central District had Schemes of Technical Instruction in operation; of these, four were administened by County Committees of Agricultures and Technical Instruction and four by Joint Committees of Agricultures and Technical Instruction and four by Joint County Count

dential Schools of Domestic Economy. The classes in Domestic Economy and Woodwork held at rural centres were as satisfactorily attended as the claims of field work and the inclemency of the weather would permit. The progress made at Woodwork was very good, and the long courses given enabled the pupils, many of whom provided their own materials, to finish in a workmanlike fashion, useful articles for their homes and farmsteads. Practical instruction in Invalid Cookery. Simple Hygiene and Sick Nursing now forms an integral part of every course in Domestic Economy and the instruction is as efficient as existing circumstances allow. Near Loughrea, where thirty-two labourers' cottages were recently erected, an instructress took up her abode in one, furnished it inexpensively, and showed how, with the limited means at his disposal, a poor man's home might be economically maintained and tastefully kept. By simple lessons in her cottage, tactful advice and sympathetic visiting, she effected an admirable change in the neighbouring houses and their surroundings. The majority of the classes were, however, held in National Schools ill-adapted for instruction in Home Sewing and unsuitable for instruction in Cookery, Laundrywork and Housewifery. The scarcity of vegetables referred to in last session's report still continues, and in one county only has an effort been made to co-ordinate the work of the Horticultural and Domestic Economy teachers. Of the Crochet classes in operation during the session, not more than three can be regarded as progressive, and it is doubtful if even these will ever become self-supporting, The time of the pupils would be much more profitably spent in acquiring a knowledge of Simple Cookery, and the making, repair and adaptation of

sebthing: Recryster boyn held Secondary School Scholarships and made satisfactors are supported by the Scholarships and support the Scholarships have signally failed in the object for which. Although the Scholarships have signally failed in the object for which and the support of the adviability of affecting the pose but brainy boy facility for elimiting the rungs of the support of the support

study specially designed to fit them for industrial careers, and provides for their maintenance during the period of apprentioschip, has already been adopted by six committees. It affords an easy passage from the Primary Shool to remmerative employment, will secure the best recruits for manufacturing establishments, and eventually lead to the foundation of local industries.

At the Mullingar Technical School, Preparatory Course, Building Trade, and Commercial Classes were efficiently conducted, and, notwithstanding the very bad approach and indifferent accommodation, the attendance was fairly good. At the Macta Residential School of Demestic Economy the accommodation was minorized, and the high standard of efficiency reached last year was well maintained.

#### URBAN DISTRICT SCHEMES.

The urban districts of Ablene, Galway and Slige had independent solutions in operation. At Ablene, one improvement was effected in the solution in the control of the control of the control of the control qualified teacher of commercial subjects as bondmaster led to increased sterileance and officiency in this section of the school. In the Trade section, the attendance at the Manual Instruction classes was this, and the accident control of the control of the control of the control of the section of the control of the control of the control of the and oftoney, Atlantog the feather was a capable and account instruction. The possity of pupils in this and the Domestic Economy section calls for the part of the Principal.

Ai Gabway, although the accommodation was inadequate and the fundlimited, for tackors were employed and classes operand in a water range of majority of the classes the fundlementary of the classes the fundlementary nature, and, in come, owing to the low scandard of the general education of the pupils, it was merely mechanical. Toward the close of the issuiton, and corrisolum. To ensure success are building must be provided—the old house is uninviting, the class-rooms are small and body transload, execution, and Theodore classes come and the contraction of the contraction of the class-rooms are small and body transload, execution and Theodore classes come as one wat blody we calculated active.

At Sligo, a Day Trades Preparatory School, an evening Technical School, and Teachers' classes in Experimental Science, Drawing and Domestic Economy were maintained. Although the teaching was efficient, the courses suitable and well-designed, and the progress of the pupils antique factory, no improvement was effected in the number or type of punils admitted to the Trades School, and the results achieved were not commensurate with the expense incurred. It is, however, hoped that the award of Technical Scholarchips by County Committees will augment the numbers and raise the standard of general education of the pupils seeking admission. The evening Technical School made steady progress. The Commercial section was well attended and excellently taught. The attendance at the Manual Instruction and Trades Classes so increased as to necessitate additional accommodation. The Home Sewing and Dressmaking classes were fully appreciated. A useful and well-attended series of lessons in simple cookery was given in the suburban district of Forthill. The attendance at the Art and Domestic Science Classes was unsatisfactory, and the painters were not induced to join the Drawing classes and thus fit themselves to take full advantage of the course of expert instruction provided in Lettering, Designing, Inlaying, etc. The teachers' classes were freely availed of, and the progress made in Drawing was good, but the instruction in science was interrupted by the resignation of the teacher and delay in appointing a successor.

In the urban districts of Ballinasloe, Ballina, Westport, Castlebar, Longford, Granard, Ennis and Kitrush, instruction was provided by Joint Committees of the urban and county areas. At Ballinasloe, Preparatory, Commercial, Trade and Domestic Economy classes were efficiently conducted in a dwelling-bouse, suitably equipped, but too limited in size The Preparatory and Commercial classes were attended by pupils of a desirable type, but the numbers in the Trades and Domestic Economy classes were small. Teachers of Domestic Economy, Trades and Commercial subjects conducted classes twice weekly at Ballina, Castlebar and Westport. Much difficulty was experienced in providing accommodation and the temporary provision made is costly and unsatisfactory. A good beginning was made in instruction in Book-keeping and Business Methods, but at Westport the majority of the pupils were not of a good type. The Manual Instruction classes were satisfactorily attended by boys, but at none of the centres were artizans found to avail of instruction in Building Trades subjects. The attendance at the Domestic Economy Classes was fairly satisfactory, and the instruction was efficient. At Longford and Granard, classes in Crochet work were aided by capitation grants paid to the managers, but the number of learners was small, the receipts were poor, and the prospect of establishing industries is remote. Instruction in Domestic Economy and Woodwork was given at both centres. At Ennis and Kilrush, instruction in Commercial subjects was given by an expert. The classes were held after school hours in the local national schools. At Ennis, the pupils were of a satisfactory type, attended punctually and made good progress. At Kilrush the evening class was poorly attended, and the night class only fairly. Successful courses in Cookery were given at both centres in the well-equipped kitchens attached to the convents, and at Kilrush an excellent class in Home Sewing was aided by capitation grants paid to the managers.

#### SECONDARY SCHOOLS.

During the session two new Secondary Schools, provided with good compatible laboratories, adopted the Departments Frogramms. The President Compatible of the Programms of the President Compatible of the Programms of the President Compatible of the Compatible of the

The laboratories are, our the whole, well kept; the equipment has been satisfactorily maintained, improvement has been effected in the arrangement of appearatus and unlabelled bottles of materials are now rarely met with, but in schools without Manual Instruction rooms, benches for the making and repair of simple appearatus are not often provided, many hand, such simple for extinguishers as a roll of web blanket and a bucket

of sand. The standard of efficiency reached last year in the teaching of Science bas been well maintained. In only three cases was it found necessary to reduce grants for inefficiency, and these occurred in the First Year Preliminary Course. The tendency to admit to this course pupils weak in Arithmetic and English still continues, and cannot be too strongly deprecated; with them too much time has to be given to mensuration and the wording and writing of records. Where also the minimum time only is given to Science, the First Year syllabus is not finished in the session, and progress in the succeeding courses is seriously hindered. The Department's Regulation, which, on educational grounds, permits pupils to repeat a course is not sufficiently availed of in this year-the exigencies of the time table and classification in other subjects too often determine advancement. In the Second Year Preliminary Course and in the Special Course of Chemistry, the teaching is, on the whole, sound. The special course of Physics is satisfactorily taught, but in the treatment of Heat sufficient use is not yet made of every-day phenomena. The schools that took Mechanical Science did good work on correct lines, and those that took Physiology and Hygiene

dealt with the subject practically and successfully. During class hours the teachers work zealously and conscientiously, but, as pointed out in last session's report, sufficient time is not given to class and laboratory preparation, nor are note book records adequately and promptly revised. This may be sometimes due to pressure of work in other classes, but cannot be always so. Until Science teachers realise that more than half their work consists in preparation for demonstration and laboratory lessons and in the revision of pupils' records, further progress will not be made.

Improvement has been effected in the desk accommodation for Drawing, and the efficiency of the instruction has been increased by the careful preparation of schemes of work, collective teaching and the freer use of the black-board. In many of the schools the time given to the subject is not at all commensurate with its educational and practical value.

It is pleasing to record that Domestic Economy continues to be efficiently taught, and that each of the schools taking it was awarded the additional

grant for exceptional merit.

Manual Instruction has been carefully taught, and creditable progress has been made in the making of models and in the making and reading of working drawings. It is to be regretted that the grants in aid of instruction in this subject offer little inducement to managers to retain it in the school curriculum The Higher School of Domestic Economy at Sligo gave a very satisfactory

course of instruction in every branch of Housecraft, but the fees paid by the pupils do not suffice to maintain it.

## PRIMARY SCHOOLS. Nine Primary Schools provided instruction in Drawing under the De-

partment's Regulations, but only four of these had classes in Model Drawing and Geometry. In ruler work and scale drawing, excellent progress has been made. The necessity for the adoption of carefully graded schemes of exercises in Free Drawing is not appreciated, and the limited accommodation available, and the style of desk with which the schools are furnished, militate against the efficiency of the instruction in Model Drawing. As prayiously reported, until the number of pupils receiving simultaneous instruction under each teacher is diminished a much higher standard of efficiency can scarcely be attained.

Three schools provided instruction in Manual Work in wood. Two of these received the award "Excellent," and one "Good." When the practical and educational value of the training given in the making and reading of working drawings, and the accurate execution of models in wood is considered, it must be regretted that the provision for the teaching of Manual Work is inadequate.

Mr. Ingram, Junior Inspector (North Central District), reports :-

## COUNTY SCHEMES.

The County Schemes include provision for instruction in Commercial, Domestic, and Woodwork subjects in permanent and temporary centres in the Counties of Meath, King's, and Queen's. In County Louth, Commercial Instruction was provided in the permanent centre but not in the temporary centres. No permanent centres for instruction in technical subjects have vet been established in County Dublin, the instruction being limited to Domestic Economy teaching in the temporary centres only. Counties Meath and Dublin provided instruction in Crochet Lacemaking; and in Queen's County, a number of Boys' and Girls' Scholarships were

awarded. The short courses of instruction in Commercial, Domestic and Woodwork subjects continued to be well supported by students; the regular attendances recorded in many centres in spite of the requirements of harvest and other important seasons, and also the progress and efficiency attained by the students, showed clearly that there is a demand for the

continuance of this work.

With the exception of County Dublin, the courses generally were well visited by those who interested themselves in the promotion of the work, The active co-operation of the Local Committee is a factor that invariably: ensures the success of a course, and this was specially noted in the courses beld at Killeigh (King's County), Mountrath (Queen's County), and Trim (County Meath). Commendable efforts bave been made by the County Committees to obtain more suitable premises for the classes held in their respective areas, and there was some improvement on the accommodation provided during the session 1909-10. Except in King's and Queen's Counties, the number of centres in which it was found that only one class per day could be formed was very small.

Lace Classes were conducted in Howth, Navan, Kells. and Trim. The instruction given throughout the session was generally satisfactory, but the returns of receipts and expenditure for the year did not indicate that the

classes would develop into self-supporting industries. Scholarships for Girls were provided by the County Dublin and Queen's

County Committees; the schools selected by the successful candidates were the Domestic Training Institute, Dublin, and the Stradbally Residential School, Queen's County. Very satisfactory courses of instruction in all subjects relating to house management were provided; and, at the conclusion of the session, the Scholarship bolders gave evidence of possessing a competent knowledge in all branches of the curriculum.

Boys' Scholarships were offered by the Queen's County Committee only. The Scholarships were held at the Maryborough Christian Brothers' School; Roscrea St. Joseph's Monastery; Portarlington Christian Brothers' Schools, and Knockbeg College; where an Intermediate Education, which included a definite amount of time given to Mathematics, Science, Drawing, and Manual Instruction, was followed by the successful candidates.

The grant to the Woodcarving Class at Stradbally (Queen's County)

was discontinued.

A special short course of instruction in Housekeeping was provided in a cottage at Mountmellick (Queen's County) for students who, through force of circumstances, could not attend either the Technical School or the short courses of instruction in Rural Centres. The interest evinced by the girls who attended, their general improvement in appearance and method, and the valuable nature of the instruction provided, combined to make this new departure in Domestic Economy Instruction a complete success. With this exception, no new features were provided by the County Committees of Technical Instruction; but the steady effort to bring the benefits of a technical training within the reach of every section of the Counties continued to be shown in a marked degree in Counties Meath, Louth, King's and Queen's, and to a more limited extent in County Dublin.

COUNTY BOROUGH AND URBAN DISTRICT SCHEMES, INCLUDING TECHNICAL SCHOOLS CONDUCTED UNDER COUNTY JOINT SCHEMES.

Owing to the non-compliance with certain requirements of the Department for the improvement of the organisation and administration of the Schools, the Scheme for Technical Instruction in the County Borough of Dublin was not approved until almost the close of the session. No grant, therefore, was earned on the attendances of the students at the classes provided.

Schemes of Technical Instruction were provided in the Urban Districts of Rathmines, Blackrock, Kingstown, Pembroke, and Drogheda. Increased efforts bad been made in all these Schools to provide specialised instruction in those subjects which would have a direct bearing on, and would aid in the development of, the local industries. Although much yet remains to be done in this respect, it is satisfactory to report that the Committees are contemplating the improvement of the accommodation

and equipment of their Schools.

Technical Schools under County Schemes have been established at Dundalk, Navan, Maryborough, Tullamore and Birr. With the exception of Dundalk, which should be classified with the Schools mentioned in the above-mentioned Urban areas, these Schools did not provide a very extended series of courses. The staffs were in the latter cases very small, and the teachers were only present in their centres for two or three evenings a week. The administration and organisation of the courses and syllabuses, therefore, were tasks that were included in the duties of the Secretaries of the County Committees, since neither Principals nor Head Teachers could be provided. Owing to the smallness of the local industries in these towns, general courses of instruction in Commercial, Building, and Domestic subjects were provided. These courses extended usually over a period of two years, though it was found that the students of the Commercial subjects invariably returned for a third year of specialised instruction. In fact, the regular attendance and marked advance of the latter students in the smaller Technical Schools are the

most remarkable features of this sension's work.

Some improvement was effected in the preparation of courses and some improvement was effected in the preparation of courses and some improvement of the properties of the late to be of sensions to gridlen interpolation of the special sensions of the properties of the subjects and the compilation of the spikeness. On the winds, very good study. Principals possessly given more attention to the grouping of the subjects and the compilation of the spikeness. On the winds, very good of the form of the form of the form of the sension of the form of the form of the sension.

Of Education, Society of Arts, City and Guidh, and other examination in cortain subjects, too much was frequently attempted, with the result that the combination of the sension.

Only very slight improvement in the numbers attending the Preparatory Course has been effected. It has not yet been fully recognised that the

functions of this course are to provide a suitable foundation for the more specialised training which is to succeed it.

In a few Schools, efforts were made to co-operate with the Local Day School authorities so as to secure the names of the pupils who had recently left or were about to leave these schools. The plan was, to a limited degree, concessful; yet, sufficient to show that, if systematically organized and of the technical Schools; a condition which would enable the Committees to arrange in advance for the instruction that may be required.

Although the larger Technical Schools provided, in nearly all cases, specialised courses of instruction in Commercial, Mathematical, Science, Demestic, Handiersti and Art subjects, each School continued to develop one such course in a more material designer than other courses; thus Motor Engineering was the chief feature of the Ringsand Technical School; Commerce and Domestic Economy of the Rathmines Technical School of Commerce and Domestic Economy of the Rathmines of the Commerce of Technical School of the Rathmines of the Ra

With the exception of the Leinster School of Irish, language teaching cannot be considered a feature of any of the Schools in the North Leinster district; and, although streamous efforts have been made in some achools to establish Art Classes, only those held at the Christian Brothew' Novitiate, Dublin, and the Droghada Technical Schools showed any sign of successor or neumanency.

Day Trades Proparatory Schools were continued at Ringsend and Blackrook; in the former school, marked general improvement was evidenced. The demand for the pupils who have followed the complete courses at these Schools showed how thoroughly employers have realised the value of the training given.

Little has been done in the direction of establishing School Libraries. A small number of books of reference has been purchased by some of the Schools, but there appeared to be no desire to develop either this sug gestion or the proposal to provide occasional lectures upon subjects of Scientific, Literary, or other interest.

#### SHOONDARY SCHOOLS.

The total number of Secondary Schools (70) in the District remains the same as in the preceding session. The Inaposition in those Schools was confined to Science, Drawning, Manual Lutration and Dissonation Extraordina to the Secondary and Confined Confined to Science, Science and Confined C

Chemistry,		3rd Year	Syllabus,	41;	4th	Year,	11.
Physics,	٠.			10;		,,	4.
Botany,	٠.		**	5;			2.
Physiology							
& Hygiene				5:		**	2.
Mechanics,	٠.		**	5:			2.
Drawing,				14;		**	3.
Domestic							
Foonomy				19.			0

Fourseen Schools provided Courses in the Auxiliary Course in Manual Lastrection, of which we followed the Second Year, and there the Time! Are Syllabuses in this subject. Seven Schools provided instruction in the Auxiliary Course of Domestic Economy, of which five facilized to the Second Year, and one the Third Year Syllabuses of the subject. Of the 70 Schools, all except one satisfied the regulation for the earning of attendance greats, viz., to provide a Special Course in one of the subject semmersted, or that this course of the second of the Course of t

A better effort was made at the beginning of the session to ensure that only those pupils who had the necessary knowledge of Arithmetic and English should enter the Courses in Experimental Science. Wherever proper attention was paid to this matter, good progress was made by the

pupils, and the First Year Syllabus was satisfactorily completed.
In the Speak Course, no marked improvement in the preparation of the
issuans was noted. The almost general practice of allowing a teacher to
proceed straight-away from a losson in some other subject to the
Laboratory, Workshop, Art Boom, or Kitchen, without allowing adequation, and the subject of the straight of the subject of

diminution in their interest.

A very satisfactory standard was maintained by the pupils who followed
the Manual Instruction courses; but the neglect of this subject, to which
attention was drawn in the Annual Report for 1909–10, was again manifest
from the commencement of the session.

The numbers of pupils who repeated courses were:—406 Boys and 208 Girls, as compared with 394 Boys and 207 Girls last sension. Of the former totals, 501 repeated the Introductory Courses and 113 the Special Courses.

## PRIMARY SCHOOLS.

Drawing and Manual Instruction were the only subjects that were inspected and examined in those Schools. The purplic continued to show a keen interest in the instruction, and a very satisfactory assaulted of week that the state of the state of the state of the state of the state and not been excessed in the retention of the completed copy books, and in consequence some difficulty was experienced in following the improvetion of the state of SUMMARY OF ART INSPECTOR'S REPORTS.

### PRIMARY SCHOOLS.

Instruction in Frimary Drawing, in face of manifold difficulties, maincians the useful work of previous years, and a general average degree of the same descent of the property of the same declarated practice. In the higher steadards, free designs of free and mechanical successful in a few schools only, and in the majority of instances has no been nerivously attempted, chiedy owing to the unsatiability of the deal has been remarkably good. The destribility of substituting paper for alates has been remarkably good. The destrability of substituting paper for alates has been constantly brought to the notice of managers, and it is now future.

#### SHOONDARY SCHOOLS.

Instruction in Drawing in Day Secondary Schools, more than any other section of the Department's activities in respect of Drawing and Art, contimes to develop, and this gradual growth may be attributed to the increasing recognition of the value of the training and to the more earnest attention of teachers in the preparation of courses, and to more definite methods of instruction. The most satisfactory work has invariably been found in schools where teachers have drawn up courses to suit the pupils, and have relied less on published examples than on personal effort. It is to be regretted, however, that more marked individuality is not apparent among the courses in operation, and that fuller advantage has not been taken of the elasticity and freedom of the Programme in this respect. In drawing from objects, excellent work has been done in many schools, and a more intelligent use of the geometric models has led to increased interest and vitality in the study. Free drawing from the flat becomes more closely allied to pattern making and design, and serves as a medium for acquiring technical efficiency as well as a knowledge of simple ornament. A considerable portion of the available time has been devoted to geometry and mechanical drawing, and practical methods of treatment have been adopted with satisfactory results. The Special Courses have been successfully followed in a limited number of schools, and have proved a source of great interest and valuable study. Drawing from actual surroundings, which is a development of the practice from groups of objects, has given a certain pictorial aspect to the work which should be cultivated. In Design, the ornamental elements have been derived from natural forms, and the methods of procedure have encouraged originality to some extent, but there is still much room for improvement in this subject. The Special Courses form a link with the Schools of Art which has been more fully

- In general the directions in which improvement is looked for in the future are:—
  - (1.) The provision of suitable desk accommedation for the teaching of Model Drawing. There are many schools still unprovided with single desks.

(2.) The more general use of suitable instruments for Mechanical Drawing. There are still many schools in which drawingboards and T squares are not in use.

(3.) The teachers to improve their qualifications beyond the bare requirements of the Irish Secondary Teachers' Drawing Certificate. Though several teachers have done more advanced studies, the majority are satisfied when they have completed the certificate.

(4.) The provision of more time for the teaching of Drawing, so as to be able to introduce more colour work, and to give more attention to teaching pupils how to distinguish good from bad ornament, etc.

(5.) The provision of good reproductions of works of Art for wall decoration and study. Vory few schools, even those which have special Art Rooms, have made provision in this respect.

## DAY TRADES PREPARATORY SCHOOLS,

Drawing in Day Tradas Preparatory Schools, with very for exception, has been most satisfactory. The course have been brought closely into has been most satisfactory. The course have been brought closely into the property of the property o

## ART CLASSES IN TECHNICAL SCHOOLS.

These classes fill an important part in the schemes of Technical Instruction, their function being twofold. First, as a preparation ground for students who require a knowledge of drawing as an essential equipment to fit them for other courses; and second as courses in themselves in which training in the practice of art as applied to design, trade and manufacture is given, with supplementary instruction in the rudiments of pictorial art. In the first case, the instruction has been successful and valuable, and has been of material benefit to the progress of students in specialised technical subjects. The difficulty of dealing with classes composed of pupils of unequal abilities has been minimised to some extent by a sub-division of the classes into grades. In the second case, although the classes have been disappointingly small, the work accomplished shows much promise and talent. In some schools, consideration of local requirements in applied design has led to most satisfactory results, but this important point has not received adequate attention from Art Teachers. In some few centres excellent examples of craft-work, such as wood-carving, metal-work, or embroidery bave been produced, and the opportunity afforded in the practice has developed direction and outlet for design. Unfortunately, the important relation of the craftsman and the designer has been inadequately realised, and the tendency to reproduce ready made designs has stultified the work and retarded progress. In pictorial representation, drawing inlight and shade, and painting from still life bave formed the bulk of the practice. In general, the teaching of Art in the more advanced classes lacks definite aim and intention, and is still too largely regarded as a series of subjects rather than a training in broad principles pursued along preconceived lines.

#### Schools of Art.

The six Schools of Art in the country have in general continued to produce satisfactory work, and some excellent work has been executed in the three larrer schools during the past year.

Up to the present, the syllabuses and courses of study carried on in these schools and classes have been largely influenced by the requirements of the Board of Education's Art Examinations and the National Competition. With regard to the latter, which gives the best students in all the new students of the students of the students in all the have always held a presume in the Kungdom, our schools and art eslesses have always held a presume in the Kungdom, our schools and art eslesses number of awards in proportion to the number of archools and classes competing, than was gained by the Schools in England and Wales.

The six Schools of Art and eight of the Art Classes sent 489 "works" for competition, and gained 2 National Gold Medals, 4 National Silver Medals, 8 National Bronze Medals, 19 National Book Prizes, and 30 Commendations: a total of 63 awards.

The works rewarded cover a large variety of subjects, including Modelling and Painting the human figure from life, and from casts. Designs for Lace. Crochet, Damask, Stained Glass, Metalwork, and Painted Tiles, as well as actual specimens of work in these Art Crafts, in addition to Studies of historic styles of ornament, Painting still life groups, Painting details of the human figure from life and from casts, Plant Studies from nature for

These results are extremely praiseworthy and creditable, more especially so when the paucity of industries and manufactures to which Art is directly applicable in this country is remembered. It is felt, however, that improvement would be effected and the usefulness of the Art Schools and Classes enhanced, by giving greater attention to the further development of Artistic Crafts, and to promoting the application of Art to those trades and industries in the practice of which a knowledge of Art is more or less essential, as well as to endeavouring to influence the artistic side of any societies in which Art work is carried on.

In the more elementary classes, a large number of students have attended for instruction in Drawing, and good work has been accomplished. The co-ordination of drawing and design in the early stages has enabled students to adapt themselves more immediately to the advanced classes; equal co-ordination in other subjects of study would tend to more rapid progress and economy of effort. In Design, attention has been given to practical methods, and the schools now possess established classes for instruction in various processes and for the reproduction of design in material. These craft classes are only slowly developing, and are deserving of far more encouragement than they at present receive. They give definite direction to the study of design, arouse interest, and serve to educate public taste in what is good and beautiful in craftsmanship.

The study of Historic Ornament has been conducted on somewhat improved lines, but is still too abstract in character, and deals with the culmination of styles without stimulating enquiry into their growth or evolution, or influencing, to any great extent, the cultivation of the

creative faculty in design.

the purpose of design, etc.

Drawing from a pictorial aspect may be assumed to begin with drawing from objects, and to continue through a series of subjects to the practice of drawing from the living model. In drawing from objects, isolated examples or groups have been selected as a rule; drawing from objects included in actual surroundings has not been so frequent. In the intermediate subjects of drawing from easts of ornament and from the antique (figure and details) much earnestness has been displayed, but the continuity of aim and intention has not always been recognised, and distinct differences in methods and technique in the various divisions have led to wider separation and unrelated study, and a vague conception of the ultimate aim in view. Successful drawing with the point in the aspect of Art study under consideration is only rarely seen in the schools.

Instruction in Modelling has been the most fruitful of the various branches of study; closer intimacy with the works of the great sculptors and archi-

tects would lead to still further development,

Improvement in the more advanced forms of Drawing and Painting must be sought through the preceding subjects of instruction, and the desire, in the early stages, to produce for purposes of display, be made subordinate to a truer understanding of the function of study and directed to the inculcation of higher ideals.

Interest in the literature of Art is more widely apparent in the schools, and should be more intensely fostered, and will add largely to the development of that creative and imaginative faculty which is a vital adjunct to receptive teaching in Art,

Miss Lough, (Domestic Economy Inspectress), reports -

# DOMESTIC ECONOMY.

### COUNTY SCHEMES.

In the large majority of the counties the work is now well organized, improved accommodation is provided, and the instruction is both practical and useful, economy in overy point being instilled into the initial contraction of the initia

### URBAN SCHEMES.

It is antificatory to report a marked advance in the educational value of the instruction at Technical Schools agencial, this being to a great extent owing to the adoption of the Course System. The work is better cognisied, and the various branches of instruction are corteluly graded; pagis, therefore, me the state of the course of the page of the page

### SECONDARY SCHOOLS.

Satisfactory progress in the direction of general utility of work may be reported. Organisation has improved, and equipments have bon brought up to date. The necessity for having the work carried out in the best way is now recognised by managers and teachers, the iteles that any one can teach Domestic Honorest managers and teachers, the iteles that any one can teach Domestic Honorest Honorest Section, both in quality and utility. Patching and durating now form a prominent feature in all centres.

Miss Anderson (Inspectress of Home Industries) reports :-

## HOME INDUSTRIES CLASSES.

Work for the year included the usual course, viz., Inspection duty, test examinations, visits of enquiry, office work, correspondence, with occasional attendance as judge of Home Industries in some of the more important County, Shows.

A few remarks are offered on the principal points.

### LACEMAKING.

Needlepoint Lace maintains its position in the market, and some very fine work has been produced during the year. The outstanding event in the industry has been the Belfast Ladies' presentation of a Court train to Her Majesty—the order being entrusted to the Lace School at Youghal. This important order has afforded employment to forty laces exceed the set of the contract of the Court of the Court of the Court of the Court of the characteristic of the finest less produced at this centre.

### LIMEBICK LACE-

Some very good work has been produced during the past year. It is satisfactory to note that this variety of lace has recovered much of its old reputation, owing to improved technique and greater attention to design. There is still room for improvement, but the progress made is distinctly encouraging. This lace has been in much request during the past season.

#### CABBICKMAOROSS LACE.

This kind of lace has also been in keen demand. For some while past there has been a shortage of first-rate work in the market, and there is, therefore, room for the extension and development of the industry.

### SPRIGGING.

During the past session three has been an extension of the number of sprigging Classos werking under Courty Schemes. Latterly, those Classes have generally been operact in districts where orgiging already exists, and where the industrial workers nood systematic training. Properly organical three classes should be of much value to the district. Unfortunately, there is a marked tendency towards filling these classes with school-children; as a marked tendency towards filling these classes with school-children; the contract of the contract

Satisfactory work has been produced in the old centres in West Fermanagh, and in the Churchill District, County Donegal. These classes are attended by the local workers.

## DOMESTIC NEEDLEWORK.

Classes for household sewing continue to carry on their valuable educational work, and many young girls have been trained during the past session. Instruction is attractive as well as useful, and the classes have generally been well attended.

### MACHINE KNITTING.

There has been no increase in the number of Knitting classes during the part year. Good work has been produced at centres such as Limerick and Longford; but in the other centres few workers adopt knitting as an industry, but rather as a temporary occupation until some more profitable employment offers; consequently, little progress is made.

## CROCHET POINT.

Some extension of this industry has taken place during the session, but the supply is still much below the demand. Some interesting experiments in design have been attempted in the new centres; these may lead to a further development of the industry.

CROCHET.

Reviewing the position of the Crochet Industry, it may be said that many of the tendencies of the last few years have been accommuted during the

post, session.

There has been increased competition from Continental centres, owing to larger importation of foreign crochet. The market for Irish raised or padded erochet has been seriously affected by the large imports of Austrian work; and as Irish motifs are freely employed by our Continental rivals, the im-

ported erochet is calculated to deceive the unwary.

The higher grades of Austrian crochet are generally distinguished by good design, and they are dangerous rather for their artistic qualities than for excellence of technique.

than for excellence of technique.

The growth of machine-made imitations has also affected the demand for the genuine Irish article.

High Man Article.

Hitherto Clones Crochet has held its ground against foreign competition, and machine-made imitations, and there has been a steady demand for well-made work. Many centres show increased sales during the past year, and some very nice work has been produced. To retain the market for Clones Crochet, and to recover portion of the market for Raised Crochet, three things may be regarded as essential:—

(i.) Good work of uniformly fine quality; fine meshwork is of special importance.

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(2.) Good shapes and artistic designs. Testeful variations on traditional patterns are strongly recommended in preference to the constant repetition of common-place patterns—such as the Trollies. This pattern is now extensively copied by Continuous was as a constant part of the pattern is now extensively copied by Continuous and a variety of design are needed as well as good technique if our Croebet workers are to retain the market against their Continuous large was presented in the continuous and variety of design are needed as well as good technique if our Croebet workers are to retain the market against their Continuous large was a continuous continuous and variety of the continuous contin

(3.) The importance of sound business methods cannot be over-raised. While the straightforward methods and business-like precedure of many of our industries' classes are gladly acknowledged, it is regrettable to be obliged to admit that good customer have been alterated and good markets lost owing to the shockness and the unreliable business methods of some of our centre.

### Organisation of Industries' Classes.

To secure uniformly good work, the thorough training of the wroters is essential. This cannot be secured where intermittent instruction is the rule, and it is false economy which places three or more centres under the charge of one toselow. In such cases, the instruction is either superfield, or the period of training is unduly prolonged owing to the intervals between the class days. In melber case is the result satisfactory. The management also suffers, as the teacher is not sufficiently in touch with the various mands of the work is add independently by the round.

## STATUS OF PUPILS.

It is a common provides in some districts to jub! Indistrict Classes at right. On these is sent of the provided children. Aftecasts of the provided children. Aftecasts of this system affirm that the early training of the children will ensure their adoption of the industry when they laves suboble to experience does not confirm this belief. Comparatively few school but experience does not confirm this belief. Comparatively few school has experience does not confirm this belief. The restraint and confinement of the slaw example of the provided confinement of the class room, after school hours, seems rather to have given them a distant for the volt. The training of young fish who have familied their school and the provided confinements of the class of the volt. The training of young girls who have familied their school and the provided confinements of the class of the volt. The training of young girls who have familied their school and the provided confinements of the class of the provided confinements of the provided confinement of the class of the provided confinement of the class of the provided confinements of the provided confinement of the class of the provided confinements of the provided confinement of the class of the provided confinements of the provided confinement of the provided confinement of the provided confinement of the class of the provided confinement of the provi

## TRAINING OF TEACHERS.

The status of Industrial Teachers is gradually being raised. Good educational work has been organised at the Technical School, Emiskillen, and the Summer Course for Teachers has also produced valuable results.

## THE TRAINING OF TEACHERS.

The summer courses of instruction to teachers, held in July and August, provided for instruction in SUMMER COURSES, experimental science (physics, chemistry, 1911. mechanics, physiology and hygiene, and

ing and modelling, domestic economy, manual instruction (woodwork), practical mathematics and mechanics, handrailing, office routine and business methods, hydrene and sick mursing, housewifery, and rural science (finchting school gardening). A special course of instruction for teachers of Limerick laceinaking, crock-twork, embroidery and springing was also held. The institutions at which the courses were conducted were 1—The Royal College of Science, Dublin; it Metropoitan School of Art, Dublin; it he Irish Training School of Domestic Economy. Stillorgan, Co. Dublin; the Department's Industrial Annexe. Grand Canal Bank, Dublin; the Municipal Technical Institute, Belfast; the City of Dublin Technical Schools; the Christian Brothers' Schools, North Richmond Street, Dublin; the Manicipal Technical School and School and

The courses were attended by 548 teacher-students, of whom 449 received certificates of satisfactory attendance and progress; the number attending for instruction in the various subjects being:—Experimental Science, 214; drawing and modelling, 99; domestic economy, 46; manual instruction (woodwork), 20; practical mathematics and mechanics, 26; handralling, 10; of proceeding and the contraction of the contract

The staff of instructors numbered 86, the following being the

staffs engaged for the various courses :-

For Experimental Science: Professor W. Brown, B.Sc., M.I.E.E.; Professor Grenville A. J. Cole, F.G.S.; Professor A. J. Herbertson, M.A.; Professor H. H. Jeffeott, B.A.I., M.I.MECH.E.; Professor I. Swain, B.A., A.R.C.SC.I.; Messrs. R. G. Allen, B.SC., A.R.C.SC.I., A.I.E.E.; H. O. Beckit, M.A.; R. W. Bingham, B.A.; J. A. Clarke, B.A., M.B.; J. Comerton, B.A.; F. E. W. Hackett, M.A., B.SC., PH.D.; T. A. W. Hill, B.SC.; A. S. M. Imrie, M.A., B.SC.; W. J. Lyons, B.A., A.R.C.SC. (Lond.); B. Moore, B.A., LL.B.; A. O'Farrelly, M.A.; B. O'Shaughnessy, A.R.C.SC. (Lond.), F.L.C.; J. H. Pollok, D.Sc.; and J. Taylor, M.A., A.R.C.SC.I., and Messrs. R. W. Duncan, A.R.C.SC.L.; G. Ebrill, B.A.; J. C. Elliott, A.R.C.SC.I.; A. Fletcher, B.A., B.A.I.; D. Haves, B.A., AR C.SC.I.; W. R. Johnston, A.R.C.Sc.I.; J. Ingram, B.E., A.R.C.Sc.I.; J. G. Ledwidge, A.R.C.SC.I.; H. W. Moss, A.R.C.SC.I.; M. J. O'Connor; J. Reilly, B.A., A.R.C.SC.I.; F. W. Warwick, B.A., B.E., A.R.C.SC.I.; G. A. Watson, A.R.C.SC.I.; and Misses B. McI. Blair, B.SC. A.R.C.SC.I.; G. V. Mortow, A.R.C.SC.I.; E. A. Scott, A.R.C.SC.I.; M. J. M. Stewart, B.A., A.R.C.SC.I.

For Drawing and Modelling:—Mr. J. Ward, A.R.C.A. (Lond.); Messrs. H. C. Charde; J. W. Freeth, A.R.C.A. (Lond.); F. Luke, A.R.C.A. (Lond.); G. G. Lynes; W. M. A. Orpen, A.R.A., R.H.A.; A. G. Power; O. Sheppard, R.H.A.; J. S. Slator; Mrs. D. Barden; Misses M. Crilley; E. Emerson; A. Jacob; N. O'Kelly;

K. Quigly.

For Domestic Economy, Hygiene and Sick Nursing and Housewijery:—Misses L. A. Baker, M.B., B.S.; E. Bloxham; K. Corley; O. Gentleman; E. Hewitt, B.A.; T. M. Kelly; B. A. McVeigh; C. F. Millar; M. Murphy; M. Vaughan; J. F. E. Walsh, B.A.; K. E. Warren.

For Manual Instruction (Woodwork), Handrailing, and Practical Mathematics and Mechanics:—Messrs. H. O. Armstrong; W. Davidson; J. G. Edwards, A.M.I.M.E.; P. F. Gillies, E.S.C.; W. B. Jamison; and G. H. Smith.

For Office Routine and Business Methods;—Messrs. D. J. Coakley; E. Daly; and W. Scott.

For Rural Science (including School Gardening):—Professor Grenville A. J. Cole, F.G.S.; Messirs. D. Houston, F.L.S.; O. H. Little, B.A., A.R.C.SC.I.; J. Mangan, M.A., F.R.C.SC.I.; G. O. Sherrard, A.R.C.SC.I.; Misses F. Alderton; B. McI. Blair, B.SC., A.R.C.SC.I.; and M. C. McDowell, A.R.C.SC.I.

For Limerick Lace-making, Crochet Work, Embroidery and Sprigging:—Mr. W. A. Mulligan, A.R.C.A. (Lond.); Mrs. A. Allen; Mrs. K. Breton; Misses M. Maguire; M. O'Neill; S. A. O'Neill; E. Percival; S. A. Reynolds.

The number of teachers who have been admitted to courses in experimental science, drawing and modelling, manual instruction (woodwork), and domestic economy, and the numbers of those whose attendance and progress have been satisfactory, are given in the following tables:—

## EXPERIMENTAL SCIENCE.

### PRELIMINARY COURSE.

	First Year	e Syllabus.	Second Yes	ar Syllabus.
YEAR.	Total Number of Teachers who attended the Courses.	Number of Teachers who attended the Courses satisfactorily.	Total Number of Teachers who attended the Courses.	Number of Teachers who attended the Courses satisfactorily.
1901.	196	173		
1902.	166	114	160	110
1903.	164	103	105	87
1904.	129	68	128	105
1905.	141	72	91	57
1906.	131	49	90	53
1907.	41	16	90	84
1908.	91	54	16	16
1909.	22	9	67	52
1910.	118	47	13	11
1911, .	10	4	69	60

Congress	Corner	***	PHYSICS.

	Third Yes	r Syllabus.	Fourth Year Syllabus.		
YEAR.	Total Number of Teachers who attended the Courses.	Number of Teachers who attended the Courses satisfactorily.	Total Number of Teachers who attended the Courses.	Number of Teachers who attended the Courses satisfactorily.	
1903,	48	44	_	-	
1904.	47	33	35	24	
1905.	51	30	55	43	
1906.	30	16	48	34	
1907.	. 27	14	35	23	
1908.	25	14	33	24	
1909,	22	9	21	19	
1910,	25	13	11	6	
1911.	. 7	3	16	9	
	SPECIAL	COURSE IN C	HEMISTRY.		

	i	Third Year	Syllabus.	Fourth Yes	r Syllabus.	
YHAR,	Total Number of Teachers who attended the Courses.		Number of Teachers who attended the Courses satisfactorily.	Total Number of Teachers who attended the Courses.	Number of Teachers who attended the Courses satisfactorily.	
903.		69	65	_	_	
904.		43	31	55	40 -	
905,		48	29	70	55	
906,		47	43	44	40	
907,		35	29	50	37	
908,	٠.	41	26	40	28	
909,		20	13	42	34	
910,		37	26	24	9	
911.		12	6	35	25	

1908,	41	26	40	28	
1909,	. 20	13	42	34	
1910, . 1911, .	37 12	26	24 35	9 25	
1011.		AL COURSE IN			
	SPECE	AL COURSE IN	BIECHANICS.		
	Third Yes	r Syllabus.	Fourth Yes	ar Syllabus.	
Year.	Total Number of Teachers who attended the Courses.	Number of Teachers who attended the Courses satisfactorily.	Total Number of Teachers who attended the Courses.	Number of Teachers who attended the Courses satisfactorily.	
1903,	6	6	_		
1904,	. 1	1		5	
1905,	. 10	7	1	1	
1906,	9	8	4	3 5	
1907, 1908.	8 5	7	8		
1908,		3	1 1	- 4	
1910,	1 4	5	8	-4	
1911.	9	7	6	· 6	

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## SPECIAL COURSE IN PHYSIOLOGY AND HYGIENE.

	Third Yea	r Syllabus.	Fourth Year Syllabus.		
YEAR.	Total Number of Teachers who attended the Courses.	Number of Teachers who attended the Courses satisfactorily.	Total Number of Teachers who attended the Courses.	Number of Teachers who attended the Courses satisfactorily.	
1903.	. 12	10			
1904,	. 11	11	7	7	
1905,	. 16	15	14	14	
1906,	. 12	12 .	20	20	
1907.	. 21	20	15	15	
1908,	. 12	11	15	14	
1909,	. 4	4	14	11	
1910,	. –	_	8	7	

## DRAWING AND MODELLING.

YEAR.		Total Number of Teachers who attended the Courses.	Number of Teachers who attended the Courses satisfactorily.	
1901.	 	80	69	
1902.	 	109	106	
1903,	 	144	121	
1904,	 	141	138	
1905,	 	142	140	
1906,	 	121	121	
1907.	 	142	139	
1908.	 	136	136	
1909.	 	113	112	
1910,	 	117	117	
1011		- 00	0.4	

1911,			99	94
M	ANUAL	Instru	CTION (WOODW	ork).
YEAR.			Total Number of Teachers who attended the Courses.	Number of Teachers who attended the Courses satisfactorily.
1902,			20	13
1903,			15	9
1904,			9	8
1905,			18	12
1906,			21	13
1907,			21	19
1908,			20	16
1909,			20	15
1910,			21	18
1911.			90	13

### Domestic Economy.

Унан,		Total Number of Teachers who attended the Courses.	Number of Teachers who attended the Courses satisfactorily.
1903.	 	26	15
1904.	 	78	64
1905.	 	83	64
1906,	 	80	65
1907.	 	81	74
1908.	 	58	45
1909.	 	50	48
1910.	 	41	88
1911.	 	46	41

Provision is made at the Royal College of Science for the training of teachers of Experimental Science, a special group of subjects being arranged for

OF TEACHERS OF those who wish to take up this branch of SCIENCE AND ART. the teaching profession. Teacherships-intraining, tenable at the Royal College of Science and at the Metropolitan School of Art are offered for

competition amongst science and art students. Particulars of the competitions will be found at pages 342 and 345.

The Department have made provision for a supply of teachers of commercial subjects who will be capable of Fixed Presents of giving instruction in some of the higher branches. Four Scholarship's were awarded COMMERCIAL SUBJECTA 1907, and eight in 1910. Fifteen scholars

ing at the London School of Economies and Political Science (University of London), and have been engaged in teaching in the country under the Department's Schemes. Of these, however, three are now otherwise employed. Of the eight who were awarded Scholarships in 190, two are at present terms of the property of the property of the property of the Scholarships in 1910, two are at present terms (Scholarships in the session 1911-12. The other six are coutinuing their studies at the London School of Economies and Political Science (University of London).

In order to provide for the further training of Manual Instructors, otherwise than by means of Summer Courses, the Department have offered facilities to enable Instructors to attend special

INSTRUCTORS. Saturday Classes at convenient centres.

Classes in Practical Plane and Solid Geometry and in Practical Mathematics were held during the past

session at the Municipal Technical Institute, Belfast, and were attended by nine Instructors.

The training of teachers of Domestic Economy subjects is carried

on at the Irish Training School of Domestic TRAINING OF Economy, St. Kevin's Park, Kilmacud, Domestic Economy Stillorgan, Co. Dublin. The course of INSTRUCTRESSES. training extends over two years, but only

those students are selected therefor who have most satisfactorily followed the course in Household Management, which extends over one year.

A report on the School for the session is printed at page 147, from which it will be seen that, during the session, nine students

secured the Department's Diploma as Domestic Economy Instructresses.

Classes for the training of National School Teachers in Elementary Experimental Science were conducted in the Technical Schools at Ballymena,

TRAINING OF TEACHERS.

NATIONAL SCHOOL Ballymoney, Banbridge, Belfast, Kilkenny, Larne, Londonderry, Nenagh, Portadown, and Slico. The following table shows the number of such classes which

have been held, and the number of teacher-students in attendance :--

		No. of		f satisfac	who receive tory attends gress.	
Session.	No. of Centres.	Teachers presented for examination	First Year Course.	Second Year Course.	Third Year Course (Rural Economy)	Total.
1903-4, 1904-5, 1905-6, 1906-7, 1907-8, 1908-9, 1909-10, 1910-11,	7 5 7 9 13 11 10	53 32 93 110 124 113 88 54	31 22 40 31 17 19 21	15 39 65 42 41 10	    6 7	31 22 55 70 82 67 69 39

Special Summer Courses in Rural Science (including School Gardening) were held by the Department during the month of August. Forty-nine National School Teachers were admitted to these courses, of whom forty-seven received certificates of satisfactory attendance and progress.

Classes for the training of National School Teachers in Domestic Economy were held in the following Technical Schools :— Ballsbridge (Co. Dublin), Ballymena, Ballymoney, Banbridge, Belfast, Coleraine, Dundalk, Enniskillen, Kingstown, Lanc, Limavady, Limerick, Londonderry, Lurgan, Magherafelt, Newry, Portadown, Sigo, Templennoe, Tralee and Waterford.

The following table shows the number of such classes which have been held, and the number of teacher-students in attendance:—

	No. of	No. of Teachers presented	No. of Teachers who received fleates of satisfactory attended progress.			
SESSION.	Centres.	for examination	First Year Course.	Second Year Course.	Third Year Course.	Total
1908-9, . 1909-10, . 1910-11, .	1 18 21	12 422 351	12 362 131	5 109		12 367 245

Special Drawing Classes for National School Teachers were conducted in the Technical Schools in Dundalk, Limerick, Newry, Portadown, Sigo, Tralec, and Waterford. Ninety-two teachers were presented for examination, of whom fifty-three secured to extificate of satisfactory attendance and progress, all of these being in the first year syllabus.

## CENTRAL INSTITUTIONS.

The Reports of the Dean and Council and the Registrar of the ROYAL COLLEGE Royal College of Science will be found OF SCIENCE AND at page 414 of the Appendices, and the METROPOLITAN Report of the Headmaster of the Metro-SCHOOL OF ART. politan School of Art at page 420.

The School re-opened on the 9th August with thirty-three students. Of these, nineteen were students whose names remained on the School roll at the close of the previous session, and one of domestic was a student who had failed to complete

Or DOMENTE. Her training at the Kildare Street School.

The remaining thirteen were new students admitted to the Household Management Course. Four of these were admitted without examination, having passed in the Stories Grade at the Intermediate Examinations, the other nine being admitted upon the results of the Entrance Examination held on

the 14th June, 1910.

At the close of the session, certificates were awarded to the thirteen students who followed the Household Management Course, and six of them were selected for training as teachers. Of the twenty teachers-in-training who attended the School

Of the twenty teachers-in-training wito acteriated the Scinolous during the session, one died from an illness contracted during the school vacation, two left without having completed their training, one, having failed to pass her examinations, was not allowed to continue training, nine secured the School Diploma, and seven remained on the School Roll at the close of the session.

The following classes for extern students were held during the session, in order, primarily, to provide facilities for teaching practice by the teachers in-training:—

Children's Class in Cookery attended by 50 students.

	,,	**	Housewifery	2.2		15	.,,
Adults'	Class	,,	Home Sewing	22	22	18	2.2

Forty-two pupils attended the Killarney School of Housewifery during the academic year 1910-11. Of KILLARNEY these, one left owing to illness, one went to

SCHOOL OF America, three were dismissed, and twentymousewiffery. one remained on the School Roll at the close
of the session, not having completed their
training. Situations with wages ranging from £12 to £18 were

obtained for eleven of the pupils who completed their training, the other five electing to return to their homes.

## Scholarships.

- The following Scholarships were awarded during the year:
  - Scholarships for Boys.
    - Scholarships at Residential Schools of Domestic Training.
       Local Exhibitions.
    - (5.) Local Exhibitions.
  - (4.) Science and Technological Scholarships and Teacherships-in-Training at the Royal College of Science (Senior Science Scholarships).
  - Teacherships-in-Training at the Metropolitan School of Art. (Senior Art Scholarships).
  - (6.) Industrial Scholarships.
  - (7.) Commercial Scholarships.
- (8.) Crochet-work and Sprigging Scholarships.

An examination in connection with the revised scheme of Scholarships for Boys (see Tenth Annual SCHOLARSHIPS FOR BOYS. Page 90, and Appendices of the present Report, page 327), was held on the 21st June, 1911, and was attended by 249

candidates. As a result of the examination, thirty Technical and eight Apprenticeship Scholarships were awarded.

Of the Scholarships held during the session 1910-11. fiftythree were renewed under the conditions of the old scheme for a second year, and one was renewed for a third year as an Apprenticeship Scholarship.

The following table shows the number of Scholarships awarded by the various Committees:—

	New S	cheme.	Old S	cheme.	
COMMITTEE.	Technical Scholars ships.	Appren- ticeship Scholar- ships.	Second Year Scholar- ships.	Third Year (Appren- ticeship Scholar- ship).	Total.
Co. Carlow			17		17
Co. Down,	2	_			3
Co. Galway.	10	_	17		27
Co. Limerick	_	2	2	_	4
Co. Longford, .	2		4	_	
Co. Mayo,		3		_	6 3
Queen's County.	_	_	10		10
Co. Sligo,	3	_	10		3
Tipperary (Urban and					٥
Rural Districts).	_	3	2	_ (	5
Co. Tipperary			-		
(North Riding),	1		1		2
Co. Tipperary					-
(South Riding), .	10				10
Co. Waterford,	1	-	_	1	2
TOTALS .	30	8	53	1	92

In addition to the Scholarships awarded under the Scheme mentioned above, 305 Scholarships were awarded in 1911 by the Managers of Day Trades Preparatory Schools. These Scholarships, as a rule, cover only tuition, or tuition and the necessary books and instruments, but 68 scholars received, in addition, sums varying from £1 to £12 as maintenance allowance or as grants towards the cost of travelling.

These Scholarships are in some cases renewed from year to year if the progress made by the scholar is satisfactory. In other cases Scholarships, other than First Year Scholarships, are awarded to the pupils generally upon the results of the work of the previous session.

School	First Year Scholars	Second Year Scholars	Third Year Scholars	Fourth Year Scholars	Totals
Ballymena D.T.P.S Belfast Christian	4	5	-	-	9
Brothers' D.T.P.S. Belfast Municipal	12	23	15	- 2	. 50
D.T.P.S	20	26	8	-	54
Blackrock D.T.P.S.	13	10	_	_	23
Clonmel D.T.P.S	7	13	=	_	20
Kilkenny D.T.P.S	7	1	3	1	12
Londonderry D.T.P.S.	8	5			13
Portadown D.T.P.S	14	_	3	-	17
Queenstown D.T.P.S.	2	_	_	_	2
Ringsend, - Pembroke					
D.T.P.S	41	19	6		66
Sligo D.T.P.S	10	6	_	- 1	16
Waterford D.T.P.S	15	8	-	-	23
Totals, .	153	116	35	1	305

Scholarships at Residential Schools of Domestic Training, of the value of £15 each, are awarded to a limited

SCHOLARSHIPS AT number of girls to enable them to attend for one year a regular course of instruction and training in Domestic Economy, such as DOMESTIC TRAINING. will cultivate their intelligence and resource-

fulness and render them more practical in the performance of home duties. The Scholarship, together with the payment of a fee of \$2 on the part of the scholar, entitles the holder to board, residence, and instruction during the term of the Scholarship. Further particulars of the conditions under which the Scholarships are awarded and the course of instruction which the scholars undergo are set forth in the County Scholarship Scheme at page 384 of the Appendices.

The number of Scholarships awarded in 1910 by each Committee adopting the scheme was as follows:—

County Carlow, 10; County Dublin, 7; Queen's County, 13; Tipperary Urban and Rural Districts, 2; County Tipperary (South Riding), 3; County Waterford, 3; County Westmeath, 12; County Wexford, 7.

The scholars are distributed between the various approved Residential Schools of Domestic Training as follows:—

Carrick-on-Suir: Convent of Mercy, . . 7

Dublin: Domestic Training Institute,... 7
Kilmore: Convent of St. John of God,... 11
Moate: Convent of Mercy... 14
Stradbally: Presentation Convent,... 18

Where Technical Instruction Committees establish, in connection with Technical Schools in County Boroughs or Urban Districts, for students of LOCAL.

EXHIBITIONS. proved ability and ascertained need, and under the terms of a scheme approved by

the Department, one or more Exhibitions of the annual value of £50, tenable at the Royal College of Science, the Metropolitan School of Art, or other approved Technical, Commercial, or Art School, the Department may make a grant in aid of the Exhibitions awarded, not exceeding half their value, provided that the Department's total contribution in this respect does not exceed £50 in respect of any one Urban District, other than a County Borough, in any one year. Candidates for these Exhibitions must be eighteen years of age; they must have been in regular employment under normal conditions in a trade, business. or industry for at least a year; they must have been in attendance at a Technical School within the administrative area of the nominating Committee for at least two complete and consecutive sessions; and they must satisfy the Department that their general education is of such a nature as to enable them to take full advantage of the course of instruction selected at the approved day school of higher education. Successful candidates must devote their whole time during the period for which the Exhibition is granted to the advancement of their studies.

Eight such Exhibitions were granted on the results of the examinations held in 1911, one Art, one Engineering, and one Building Trades Exhibition being awarded to students of the Municipal Technical Institute, Belfast; two Art Exhibitions to students of the Crawford Municipal School of Art, Cork; one Science and one Commercial Exhibition to students of the Municipal Technical Institute, Limerick; and one Science Exhibition to a student of the Central Technical Institute, Waterford. The Science Exhibition awarded to a student of the Limerick Municipal Technical Institute in 1909, and renewed in 1910, was renewed for a third session, and the Science Exhibition awarded to a student of the same institution in 1910 was re-

newed for a second session.

At the examination for Science and Technological Scholarships and Teacherships-in-Training held in 1911. SENIOR SCIENCE thirty-nine candidates competed for the five SCHOLARSHIPS. Scholarships and five Teacherships-in-Train-

ing offered for competition by the Department, and tenable at the Royal College of Science. The conditions attached to these Scholarships and Teacherships-in-Training are given in Form S.33 (see Appendices, page 345).

An examination was held on the 27th June, 1911, and following days for three Teacherships-in-Training at SENIOR ART the Metropolitan School of Art. The ex-

SCHOLARSHIPS. amination was attended by thirteen candidates.

The conditions under which the Teacherships-in-Training were offered for competition in 1911 are given in Form S.2 (see Appendices, page 342).

Industrial Scholarships are of the value of £80 each, and are renewable for a second and third year at the discretion of the Department. The object INDUSTRIAL of these Scholarships is to enable selected SCHOLARSHIPS. persons (who must already have been engaged in one of the higher branches of an industry) to take such

a course of instruction in that industry, in an institution providing special advanced courses, as will enable them to undertake the management of an industry in Ireland at the termination of their instruction.

No new Scholarships were offered for competition in 1911. but two Scholarships in Woollen Manufacture awarded in 1909, and renewed in 1910, were renewed for a third year, and the two Scholarships, one in Woollen Manufacture and one in Linen Manufacture, awarded in 1909, were renewed for a second year.

The Scholarships in Woollen Manufacture are being held at the University of Leeds; the Scholarship in Linen Manufacture is being held at the Municipal School of Technology, Manchester.

The conditions under which these Scholarships were awarded are given in Form S.190. (See Appendices, page 346).

Commercial Scholarships are of the value of £100 each per annum, and are tenable for two years. The object of the Scholarships is to enable COMMERCIAL selected persons to obtain such a training SCHOLARSHIPS.

as will enable them to undertake the teach-

ing of higher commercial subjects in Ireland. Eight Scholarships were awarded in 1910; of these, six have been renewed for the session 1911-12, the holders attending the London School of Economics and Political Science (University of London). The holders of two of the Scholarships awarded in 1910 will be temporarily engaged during the session 1911-12 in teaching in Ireland, and will take up their Scholarships again in the session 1912-13. No new Scholarships were awarded in .1911

The conditions under which the Scholarships were awarded are given in Form S.194. (See Appendices, page 847).

The Department offered for competition in 1911, three Scholarships tenable at the Training School for Lace and Sprigging Teachers, Enniskillen. CROCHET WORK

The object of the Scholarships is to enable AND SPRIGGING selected applicants, who must have had a SCHOLARSHIPS.

satisfactory general education, to secure training as teachers of the subjects mentioned. Two Scholarships in Crochet Work and one in Sprigging were awarded on the results of the examination held under the conditions of award. Further particulars respecting these Scholarships are given at page 347 of the Appendices.

The list of candidates awarded Science and Technological Scholarships and Teacherships-in-Training, Art Teacherships-in Training and Industrial, Commercial, and Crochet Work and Sprigging Scholarships in 1911, will be found in the Appendices, page 348.

### FISHERIES.

The Report of the Fisheries Branch for the year 1910 was issued since the date of the Department's last General Report. The sea fisheries were more productive than in any of the past

eleven years. Excluding salmon the value of the fish at place of landing is estimated at £975.680.

There were no material signs of improvement in the Spring mackerel fishery, although the quantity landed and the amount realised were greater than in the previous year. The Autumn season was well above the average of those for the past twenty years. Most of this fish is cured for the American Market, where, however, prices in 1910 ruled very low, It is pleasing to have to record that a considerable advance in this respect

The take of Spring and Summer herring brought to the fishermen nearly \$27,900; shout one-half of the capture was cured. The Autumn and Winter herring season showed a considerable improvement on that of 1900—in fact it was the most productive of any of the decade. It is estimated that the fish sold for about \$128,900. The figures given do not, of course, include the large amount of money that is earned locally by the handling, earting and curing of the fish.

An experiment to test the value of an Irish Crown Brand for cured herrings was undertaken. The hundred article sold well to Continental buyers, and it is anticipated will meet with a good demand in the foreign markets as it becomes better known. The Department are much indebted to the Fishery Board for Sectland for assisting in earrying out the experiment.

The number of vessels actually engaged in fishing (some wholly and some partially) irrespective of those following salmon fishing, was 5,652; 20,389 men and 351 boys were employed. Fifteen fishermen lost their lives while actually in pursuit.

CASUALTIES. of their calling during the year ended 30th September, 1910.

Arrangements were made during the year ended 31st March, 1911, for making loans to fishermen to

LOANS. the extent of £14,402. A large portion of motor fishing craft, but one Steam Drifter was constructed thereout. The demand for boats driven by engines run with paraffin has increased; and more first-class boats have been

built in the last two years for East Coast Ports than were built in the previous fifteen years.

The class of instruction in net-mending at Kinsale, the cost of which was borne by the Department, was well and regularly attended by the NET-MENDING. students, all of whom came from the fishing

nopulation.

The Department's endeavours to develop the sale of fish in inland towns were continued, and have secured a SALE OF FISH IN better and more continuous supply than INLAND TOWNS. heretofore. The improvement in business methods on the part of those engaged is

marked.

At the Inishkea and Blacksod Whaling Stations, 120 whales were landed. These included 8 Right WHALE FISHERIES. Whales, 7 Sperm Whales, 11 Blue Whales, 52 Fin Whales, 39 Sei Whales, and 3

Humpbacks. From these were prepared 3,365 barrels of oil, 364 tons of guano manure, about 8 tons of whale bone, about 200 tons of cattle food, and about 100 tons of bone meal. Some 60 local hands were employed at the two stations. The value of the kelp export from the Counties of Clare, Galway,

Mayo, Sligo, Donegal and Antrim during

KELP. the year is estimated at £17,000. Prosecutions were successfully instituted in eighteen cases of illegal trawling. Sixteen of these were by

steam and two by sailing vessels. MARINE The Department reported three Foreign SUPERINTENDENCE. Steam Trawlers to the Customs Authorities

for working in the extra-territorial parts of areas in which steam trawling is prohibited. The effect of the Department's action was to render for a certain time the takes of the three Trawlers liable to confiscation if landed in the United Kingdom.

The Department shared in carrying out the International Investigations for the Exploration of the Sea; and in this connection undertook VISHERY periodic observations in regard to the INVESTIGATION. Atlantic current off the South-West Coast.

The study of marine fauna and flora of Blacksod Bay is being carried on at regular intervals to test the possible effect of the establishment of the Whaling Station in the locality.

Several publications (referred to in the Report of the Fisheries Branch) bearing on the scientific and economic aspect of questions connected with the fisheries were issued during the year. The entrance to Arklow Harbour has been kept open, and the

Dock recently constructed by the Department has proved very useful. The Graving PIERS AND Slip there has also been in constant use. HARROURS. At Courtown Harbour various improve-

ments in the sluicing arrangements have been made. At Ballaghaline the construction of a pier and slip is being

carried out.

The widening and extension of the pier at Buncrana have been completed, and a large amount of dredging has been carried out with the object of affording facilities to the fishing fleet which operates from this centre in the late Spring and Winter.

Works have been carried out at Port Ballintoy with the object of improving the harbour accommodation.

The Department's schemes for the improvement of the landing accommodation at Ballycastle, Co. Antrim, and Rathlin Island are before the Antrim County Council.

The Department carried out, and contributed largely to the cost of, extensive dredging operations at Balbriggan, and effected other improvements in that harbour. The Department submitted to the Royal Commission on

Inland Navigation certain schemes connected with the River Blackwater, Co. Waterford, the Suir, the estuary of the Boyne and the Ballinamore Canal. The schemes were adopted and recommended by the Commission in question.

It is considered that the yield was less than in the year 1909 but was more than that of any other of

SALMON FISHERIES, the past seven years.

Drift netting for salmon on the North and West Coasts was very successful.

No sign of disease was observed in any of the districts. Local Boards of Conservators and Protection Associations were financially assisted, on certain conditions, by the Department to the following extent:-

Dublin Board	of	Conservators		£11	16	0
Waterford		,,,		90	0	0
Cork	,,			250	0	0
Bandon				30	0	0
Skibbereen		,,		25	0	0
Bantry				9	0	0
Kenmare		"		60	0	0
Waterville				50	0	o
Killarney				200	0	ò
Limerick	,,	.,		536	10	ō
Galway				50	0	0
Ballinakill				10	o	0
Bangor				15	ō	0
Ballina		,,		250	ò	ó
		"		20	ŏ	ŏ
				23	ō	0
Lough Derg F	ishe	ry Society		50	ō	ō
Westmeath La	kes	Fish Preservat	ion		-	-
Society		**		18	6	1
Lough Sheelin	Tr	out Protection			-	_
Association				90	۸	

Lough Mask and Carra Fishery Society Lough Arrow Fish Preservation Society 10 0 0 \* Amount not issued until 1911.

25

Lough Corrib Association .

## 4.—STATISTICS AND INTELLIGENCE.

The work of this Branch, which has greatly developed in recent years, falls under four main heads:—

(1.) The collection and publication of agricultural, trade,

- The collection and publication of agricultural, trade and other economic statistics relating to Ireland;
  - The collection of information both at home and abroad on questions submitted to the Department and affecting its work;
     When the editing of the Quarterly JOURNAL of the Department and affecting of the Quarterly JOURNAL of the Department.
  - ment and press-editing of other publications issued by the Department;
    - (4.) The distribution and despatch of reports, leaflets, and other publications.

### STATISTICAL SECTION.

This section has three main divisions—the Agricultural Statistics of Ireland, the Statistics of Irish Imports and Exports, and the Statistics of Prices of Irish Agricultural Products.

The Agricultural Statistics of Ireland include the statistics of the division of land, of the number and size of agricultural holdings and of their distribution, of the area and produce of crops and

the numbers and classes of live stock, of the extent and kinds of woods and plantations and of planting and felling operations, and also of the supply and migration of agricultural labour and the wages of the same. Special statistics are also collected as to the area under the different classes of fruit; the extent of the several varieties of potatoes; the different the number and production of creameries, butter factories, corn mills, seutth onlist, malt houses; and the numbers and use of the

chief classes of farm machinery.

The statistics of the division of land and the number and classes of live stock, together with many of the special statistics, are collected annually in June. The preliminary results of the enumeration showing the changes in the area of crops and the

numbers of live stock are published in August or September.

Reports providing preliminary information regarding the
state and the prospects of the several crops are published
at intervals during the summer and autumn. The next step
is the collection of information as to the yield of these
crops. Returns of the yield of hay are collected at the
end of August, those of grain crops and potatoes at the
end of October or early in November, and those of the root crops
and flax at the beginning of December. As soon as the information thus collected has been examined and compiled, it is issued

in a series of bulletins—(1) Hay, (2) Grain Crops, (3) Potatoes, (4) Roots, and (3) Flax. This method of division enables information as to the several crops to be made known at as early a date as possible. Care has, however, to be taken not to collect this final statistical information regarding each crop until almost the best of the control of the

Finally, in the volume of Detailed Agricultural Statistics which is issued later, full and revised tables are furnished showing, as compared with previous years, the area and produce of crops and the numbers of live stock. In this volume are also contained particulars as to the acreage of agricultural holdings; statistics of forestry; and various other statistics relating to varieties of first, live stocks, seutch mills, early.

A separate report is issued annually on the subject of Irish Agricultural Labour. This report in recent years has been considerably extended, and deals not only with the annual migration of agricultural labourers to England and Scotland, but also with the supply of agricultural labour in Ireland, and with the wages earned by Irish agricultural labourers respectively in Great Britain and Ireland.

The first report published by the Department on Irish Import and Export Statistics was for the year 1904, TRADE STATISTICS. and reports have been published for each year since, that for 1910 being the last

issued. The returns are in many respects still unsatisfactory. As has been pointed out in the Reports the returns relating to manufactured imports and exports are at present open to serious error, which, under existing conditions, cannot be satisguarded against, and, until adequate statutory powers are provided, it will be impossible to secure returns which are fully complete, reliable, and un-to-date.

Annual reports are issued dealing with the prices of Irish live stock and agricultural produce. Arrange-

PRICE STATISTICS. ments have been made for a considerable extension of the number of reports received of prices of live stock at markets and fairs, and the development of the system of reporting prices of agricultural produce sold in the principal market towns is at present receiving attention.

Two half-yearly reports are also issued by the Department on the Banking, Railway, and Shipping Statistics of Ireland.

Statistical leaflets are issued to the "Press," public and private companies and private individuals, showing:—

(1.) Exports of animals. These are issued weekly, monthly,

Exports of animals. These are issued weekly, monthly, and yearly.
 Prices of live stock at the principal Irish markets and

fairs. These are issued daily.

(3.) The number of pigs killed or bought dead by Irish bacon curers. These are issued weekly.

Enquiries are constantly being received for statistical information from Government departments, public institutions, and private individuals in these and foreign countries and in the Colonies. This involves the compilation of a large number of special statistical tables each year.

The following statistical reports have been issued since the last Annual Report :---

(1.) Detailed Agricultural Statistics of Ireland for the year

1910. Cd. 5964-1911. (2.) General Abstracts of the Acreage under Crops and Numbers and Descriptions of Live Stock in 1911.

Cd. 5886-1911.

(8.) Abstracts of the Average Yield and Total Produce of the following Crops in 1911:-(1) Hay, (2) Grain Crops, (3) Potatoes, (4) Root Crops, (5) Flax.

(4.) Report and Tables Relating to Irish Agricultural Labourers in 1910-11. Cd. 6019-1911.

(5.) Report on Imports and Exports at Irish Ports in 1910. Cd. 5965-1911.

(6.) Return of Prices of Crops, Live Stock, and other Irish Agricultural Produce, 1910. Cd. 5882-1910.

(7.) Two half-yearly Reports on Banking, Railway, and Shipping Statistics in Ireland. Cd. 5684-1911; and Cd. 5934-1911.

## INTELLIGENCE SECTION.

During the year systematic information as to the condition and progress of the crops was obtained from time to time from correspondents in the CROP REPORTS. several counties, and four crop reports and two fruit crop reports, based on the information thus supplied were issued during the course of the summer and autumn.

During July and August special weekly reports also were received from each Constabulary district giving particulars of the nature and progress of the potato blight, and stating the extent to which spraying operations were being carried ont. The systematic collection of information by means of egg record

has been continued during the past year, and SPECIAL INQUIRIES. regular monthly returns have been received from about 200 correspondents. These records have proved of great interest and importance as showing in a concrete way the use of statistical method in farm work. A further development of the work has now taken place. Hitherto the records have been of flocks or pens, but a series of records, dealing with individual hens by means of the trap-nesting system, has been established. The keeping of records, whether in milk or egg production, is a matter of the greatest importance, as it is only by means of the record that reliable comparisons can be made, and that flocks and herds can be properly weeded of the least profitable stock. At the bar protection was proved to the continuous records and observation can the transmission of producing power be ascertained in a reliable manner. It is important, therefore, that this part of the work should be further developed, and that also in other branches of farm management more systematic information about he obtained as to octual costs of proctuction on typical should be obtained as to octual costs of proctuction on typical most office of the useful development of statistical records and exact method of accounts as anomical to farm work.

Among other inquiries special reference may be made to that on the organisation of the dead meat trade and to veal calf production in Ireland. Several reports on these subjects were published in the Department's JOUNNAL, and further inquiries

are being carried on.

In connection with the development of special inquiries the work of compiling a List of the principal Irish Exporting Manufacturers, for circulation in the Colonies and in foreign countries has been completed. The list has been published and issued to British Consuls abroad, Trade Commissioners in the Self-Governing Dominions, Trade Commissioners in British India, Correspondents of the Commercial Intelligence Branch of the Board of Trade in Colonies and Protectorates, Commercial Attachés in Embassies abroad, the First Secretary to each Foreign Legation in London, Trade Inquiry Offices of the Self-Governing Dominions at London, Commercial Departments of Foreign Powers, Italian Chamber of Commerce, the principal Ocean Steamship Companies and to many leading commercial firms abroad. It has also been circulated at home to Irish Members of Parliament, the Irish Newspaper Press, Industrial Associations, Irish Chambers of Commerce, Subscribers, Firms suggested by Subscribers, Foreign Consuls in Ireland, etc., etc. The list is still being issued at home and abroad and every effort is being made to bring it under the notice of all likely to help in any way Irish industries and Irish industrial and commercial expansion. Inquiries are frequently received from foreign countries for the names of firms of Irish producers, and it is hoped that this publication will greatly assist in making known the names of Irish firms and the merits of Irish goods.

The publication of the Quarterly Journal has been continued as heretofore, and its appeal has been widened by the addition of a section dealing with

LEAFLETS, ETC. the work of the National Museum of Science and Art. Several contributions of special practical importance have been re-issued in the form of leaflets or bulletins, including:—

Caerphilly Cheese-making in Ireland,

Investigations on Potato Diseases: Second Report;

Irish Crown Brand for Pickled Herrings, Irish Table Duck Industry, Milk Production: Can it be increased? Pig Feeding Experiments at Clonakitly, Co. Cork, Potato Crop: Decline of the "Champion," Seaweed as Manure, Probinical Instruction in Bangor,

", ", Clonmel,
", ", Newtownards,
Tests with Nitrogenous Manures,

Tests with Nitrogenous Manures, Tuberculosis in Poultry, Weeds.

The following Departmental Publications have been issued and are on sale to the public:—

Report of Departmental Committee on the Irish Butter Industry, and Minutes of Evidence, &c.; Report of Departmental Committee on Irish Flax-Growing Industry, and Minutes of Evidence; Cookery Notes, for use in Schools and Classes for Girls working under the Department's Schemes;

Girls working under the Department's Sciences, Forestry Notes. An illustrated pamphlet. Being Practical Hints on the Formation, Management, and Protection of Woodlands in Ireland. By A. C. FORRES, F.H.A.S., M.R.I.A., Forestry In-

spector.

The Management of a Cottage Garden;
Farmer's Account Book.

Seven leaflets were re-issued in a revised form, viz.:—Results of Field Experiments in Barley, Meadow Hay, Potatoes, Mangolds, Oats, Turnips, Flax and Wheat.

The special issue of leaflet No. 14 (Prevention of Potato Blight) to National Schools, etc., in Ireland, was repeated.

to National Schools, etc., in Ireland, was repeated. The total number of separate leaflets issued during the year amounted to, approximately, 987,000.

There has been a steady increase in correspondence with foreign countries and in the information furnished to the Department as regards agricultural CORRESPONDENCE development abroad. The great increase in

AND EXCHANGE, agricultural research work as well as in the methods of organisation for the protection and development of agriculture in the different states of the protection and development of agriculture in the different states of the protection and development of agriculture in the different states of the protection and development of agriculture in the different states of the protection and development of agriculture in the different states of the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agriculture in the different protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of agricultural research work as well as in the protection and development of a

and development of agriculture in the dirferent countries is a matter which requires the closest observation. No country can afford to ignore the steps which other countries are taking, or to neglect to compare results. The Department are now in regular communication with the International Institute of Agriculture, Rome, Agricultural and Statistical Departments of the Colonies and the chief Foreign Countries, and receive an exchange of publications which may be consulted in the Departmental Library. In addition, a large number of foreign agricultural publications of a non-official character are received and their contents indexed for the use of inquirers.

In connection with the inquiries, statistical and other, carried on by this Branch, the Department have to acknowledge the great assistance received from the Inspector-General of the Royal Irish Constabilator, the Chief Commissioner of the Dublin Irish Constabilator, the Chief Commissioner of the Dublin Link Commissioner of the Dublin Link Commission of the Dublin Commission of the Irish Rottand Harbour Alanch Irish Rottand Harbour Alanch Irish Rottand Harbour Alanch Irish Rottand Information on agreed to the Irish Rottand Link Commission of the Irish Rottand Link Commission of the Irish Rottand Link Commission on Irish Rottand Link Commission of the Irish Rottand Link Commission on Irish Rottand Link Commission of the Irish Rottand Link Com

## VETERINARY.

The Veterinary Branch deals with the work of the Department functions as the Central Authority in Ireland under the Diseases of Animals Acts. A separate report in relation to the proceedings under those Acts is issued for each calendar year. Consequently, it will be sufficient here to refer briefly to some matters arising out of the work during the twelve months ended 39th June, 1811.

In 1910 an Order was issued requiring owners to notify case of this disease, in certain of its forms, among their cattle. By means of such notification it is hoped that when the incomes for dealing further with the malady, particulars will have been accumulated affording some indication

as to the extent of its diffusion and the areas wherein it is most prevalent. The cases coming under notice during the twelve months ended 30th June, 1911, numbered in all 256, distributed through 28 Counties.

Irish cattle continue to enjoy comparative immunity from
Anthrax, of which disease only 7 outbreaks,
involving the death of 11 animals, were
reported throughout the country during
the year ended 30th June last.

In the same period the outbreaks of Swine Fever in Ireland numbered 112. This total is substantially swine fever in the annual average for several years past, but it does not contrast so favourably

with the aggregate for the preceding twelve months, during which the number of outbreaks sank to the exceptionally low figure of 85.

The position as regards Sheep Scab in Ireland during the year ended 90th June, 1911, showed appreciable improvement as compared with the previous year. In the former period 399 outbreaks

were recorded as against 463 in the latter.

During the year close attention was paid to the enforcement of dipping as a protection against the disease. Two dippings annually of all sheep throughout Ireland are now required, and 1910, the latest year for which figures on the subject are yet available, 2,614,409 sheep were returned as having received the prescribed summer dipping, and 1,838,287 the autumn dipping.

This disease, though not widely spread, was a little more prevalent during the twelve months ended PARASITIC MANGE. 30th June, 1911, than in the preceding year. The outbreaks for the two periods were 62 and 71 respectively.

Two outbreaks of this disease came under notice during the twelve months ended 80th June, 1911, as compared with one in the preceding year. In the period ended 80th June, 1911, the number of animals found affected was three only. Extensive enquiries made after the disposal of these cases failed to disclose any further centre of infection.

## 6.—TRANSIT AND MARKETS.

Under this head are grouped matters relating to-

The transit of animals;

The transit of produce;

Railway rates;

The enforcement of the Sale of Food and Drugs Acts as regards butter, margarine, cheese, margarine-cheese and milk;

The Merchandise Marks Acts.

The action taken by the Department's Staff in Great Britain; and

The Markets and Fairs (Weighing of Cattle) Acts, 1887, and 1891.

## TRANSIT OF ANIMALS.

The Transit Inspection Staff of the Department exercised careful supervision over the railway transit of animals in Ireland and the shipment of animals to Great Britain.

During the period, four new yessels were provided for the

conveyance of live stock between Ireland and Great Britain. Some of the older cattle-carrying vessels have been withdrawn from the trade.

Detailed information as to the work under this head will be found in the Annual Reports of the Department under the Diseases of Animals Acts. These Reports are published separately.

## TRANSIT OF PRODUCE.

The Inspection Staff visited railway stations and ports in regard to the condition and handling of consignments of produce and the arrangements made by the carrying companies for

the conveyance of the consignments. Whenever the reports of the Inspectors showed that there was any carelessness on the part of the servants of the companies in handling or loading the consignments, the attention of the companies concerned was drawn to the matter. Defects observed in the preparation of consignments of agricultural produce for the markets formed the subject of communications with the consignors.

The numbers of  $\,$  Inspections at Railway Stations and  $\,$  Ports are as follows :—

No.	of	Inspections	at Railway Stations in Ireland,	925
	.,		Railway Stations in Great Britain,	21
	,,		Ports in Ireland	174
	,,		Ports in Great Britain,	9
М	er	hants in sev	eral centres in Great Britain were interv	iewed

by the Inspectors as to the condition in which Irish produce reached the markets. There was general agreement among the merchants that a marked improvement had taken place in the condition of the packages—better boxes and cases being used and the occurrence of breakage being less frequent. Complaint was, however, rather frequently made as to the damp condition of the packing material in cases of eggs.

Inquiries were made, in a large number of cases, regarding delay or damage in transit to consignments of various articles of produce.

Very serious dislocation of traffic occurred owing to the strike that took place in September on some of the principal lines of railway.

### Butter.

Improvement in the condition of the packages of butter continues. The boxes are more neatly finished and are better able to withstand the strain of transit.

On some occasions the Inspectors noticed that boxes of butter.

while being conveyed to railway stations. were not adequately protected from the PROTECTION heat of the sun, and that packages were con-DURING CONVEYANCE. veved in vehicles not in a cleanly condition. There is, however, no reason to believe that

such carelessness is of frequent occurrence.

It now rarely happens that instances of rough handling of boxes of butter at the premises of carrying HANDLING AND companies come under notice. There were LOADING

only a few cases of the conveyance of butter CONSIGNMENTS. in waggons not sufficiently clean or in which articles likely to taint the produce

were being carried. The use of trays for the loading of consignments of butter on steamers and for the unloading of the consignments is extending. The more general adoption of this method of loading and unloading should prove of advantage.

It is disappointing to find that there is no extension in the demand for refrigerator vans for the carriage REFRIGERATOR of butter. Owing to the comparatively VANS. small extent to which the vans made available by one company were used, the com-

pany have altered some of the vehicles so as to make them more fitted for the conveyance of other merchandisc. The number of steamers conveying produce from Ireland to Great Britain and fitted with refrigerating apparatus is the same

-eleven-as that given in the report for the previous year.

Eggs. Improvement in the cases for the conveyance of eggs is becoming more marked. Comparatively few instances CASES. of the use of unsuitable timber in the cases or of badly-secured lids came under notice.

Much room for improvement still, however, exists. On many occasions the Inspectors have seen, in transit, cases which had spaces between the boards sufficiently wide to admit of eggs being removed, or in which the packing had been carelessly done -- there being in some instances no packing material whatever between the eggs and the timber of the cases. These are the defects

which come most frequently under notice. The packing material in the cases is sometimes found to be wet. This condition must often be ascribed to

PACKING packing in the open or without adequate MATERIAL. protection from rain, or to the absence of suitable protection for the cases when packed and awaiting conveyance. The injury to the Irish egg industry through cases of eggs being placed on the markets in a damp condition must be considerable.

The Department had the question of covered or improved accommodation at certain egg markets brought under the notice of the local

COVERED brought under the notice of the local authorities. In one case, shedding accommodation was made specially available for the egg traffic. At another market, at which some difficulty

arese as to the conditions on which a shed would be used by egg merchants, the question was satisfactorily settled. In another case, the Department's action resulted in arrangements being made by egg buyers whereby increased covered accommodation was made available and used for the purpose of the packing of eggs.

The carrying companies have issued strict instructions to their servants as to the manner of handling con-

consignments. ness have been severely dealt with.

Several complaints of breakages to consignments of eggs were investigated. Generally, difficulty arises in ascertaining the cause of breakage or locating the place

in ascertaining the cause of breakage or locating the place where the breakage occurred, as indication of the breakage does not usually become apparent for some time after the damage last taken place—often the breakage is not discovered until the cases are examined at their destination.

## Live Fowl.

Inquiries as to the dimensions of crates that could be regarded as most suitable for the conveyance of crates. poultry were continued during the period

we filter of the Department. Much attention was also given to the question of the conditions under which the traffic could be most satisfactorily conducted. While some shippers have adopted improved descriptions of crates, there were many instances of the use of crates which were not divided into compartments, or in which sufficient head space was not left for the birds. Overcrowding of birds in crates not infrequently takes place, and complaint has been made that Irish live fowl have been found to be in a bruised condition when placed on the markets in Great Britain.

Power has now been conferred on the Board of Agriculture and Fisheries in Great Britain and on the Department by the Fisheries in Great Britain and on the Department by the Poultry Act, 1911, to make orders "for protecting live poultry from unnecessary suffering while being conveyed by fand or water and in connexion with their exposure for sale and their disposal after sale," and "for requiring the cleansing or disinfection of receptacles or vehicles used for the conveyance of live poultry."

Orders are in course of preparation.

## Fruit.

During the fruit season, the Inspectors visited the principal stations from which fruit is forwarded. Considerable improvement was effected in the accommodation at one station for the purposes of the fruit traffic. Special facilities were also afforded for the conveyance of strawberries from certain stations in the South of Ireland. On one line the number of special fruit vans had been increased, and were, during the season, in daily use for the carriage of fruit.

### Fish.

Much attention was given to the transit of fish. The arrangements for dealing with the traffic at the principal stations of despatch were looked into and the handling of the consignments at the points of transhipment was from time to time observed.

### Railway Rates.

During the year ended the 30th June, 1911, fifty-three complaints as to charges for the conveyance of merchandise were received. The complaints related to butter, dead poultry, eggs, fish,

fruit, live stock, milk, potatoes, etc.

Eleven of the complaints had reference to the non-existence of

through rates. Through rates were fixed in three cases. In one case, through rates had already been in operation.

Twenty-one of the complaints were to the effect that existing

through rates were excessive. Reduced rates were fixed in nine cases. In one case, a lower rate than that of which complaint had been made was actually in force. Eighteen of the complaints related to local rates. In four

cases reduced rates were fixed. Refunds were made in three cases.

One complaint referred to local rates and to the non-existence

of through rates. The local rates were reduced and through rates were fixed.

In one case it was desired that rates inclusive of charges for

In one case it was desired that rates inclusive of charges for cartage should be put into operation for the carriage of furniture and bedding from Dublin to certain stations. The companies concerned were not prepared to put such rates into operation. The remaining case related to the charges for the conveyance of

potations, graines exchanged and the samples for the conveyance of potations, graines exchanged the country Born and and distinct wellian and other places in the Country Born and and distinct the same war having arisen between the Great Northern Railway Company and the Bellast and Country Bown Railway Company as regards traffle to and from Castlewellan. The Department had inquiries made as to the question in dispute, and also communicated with the Board of Trade, who were unable to effect a municipated with the Board of Trade, who were unable to effect a municipate of the Castle of t

A Summary of the Complaints will be found in the Appendices, page 431.

## Delaus and Damage in Transit.

During the period, 1st July, 1910, to 30th June, 1911, sixtynine complaints were received as to delays or damage to consignments in transit. A summary of the complaints and of the results of the inquiries will be found in the Appendices, page 439.

The Enjorcement of the Sale of Food and Drugs Acts as regards Butter, Margarine, Cheese, Margarine-Cheese and Milk.

The administration of these Acts is primarily imposed on the local Authorities, i.e., the Councils of the thirty-three administrative counties and ADMINISTRATION the Councils of the following boroughs:-OF THE ACTS.

Dublin, Belfast, Clonmel, Cork, Drogheda, Kilkenny, Limerick, Londonderry, Sligo, Waterford and Wex-

ford. In thirty-one of the administrative counties the Inspectors under the Acts, are members of the Royal Irish Constabulary

and in the remaining two counties the duty is performed by members of the Royal Irish Constabulary and by local officers. In five boroughs-Dublin, Belfast, Clonmel, Drogheda and Kilkenny-the duties of Inspectors are performed by officers not connected with the police forces; in three boroughs -Cork,

Sligo, and Wexford-the Inspectors are members of the Royal Irish Constabulary, and in the remaining boroughs-Limerick, Londonderry and Waterford-members of the Royal Irish Constabulary and also local officers act as Inspectors.

Compared with the numbers for the year 1909, there was a reduction in the numbers of samples of butter, margarine, cheese and milk taken by Inspectors in the counties in the year 1910 for analysis. In 1910 the total number of samples of these articles was 9,173 and in the previous year, 10,185. The numbers of prosecutions for the respective periods were 308 and 354. As will be observed, no marked variation has taken place in the

proportion of prosecutions to the total numbers of samples taken. In the boroughs the numbers of samples of margarine, cheese and milk vary only very slightly during the periods, the respective numbers being:

1910—margarine, 82; cheese, 27; milk, 8,135. 1909-margarine, 88; cheese, 30; milk, 3,170.

The numbers of samples of butter taken were 786 in 1910, and 882 in 1909. The total number of prosecutions in 1910 showed a substantial increase as compared with the total for the previous year, the respective numbers being 238 and 176. The increase in prosecutions took place principally in regard to samples of milk. Activity on the part of the Inspectors with a view to prevent the fraudulent sale of adulterated milk or milk from which fat has been removed appears to be increasing. In the year 1099, when the number of samples taken was 3,170, the number of prosecutions was 130, in the year 1910, when the 205; while in the indiversity of the prosecutions was 205; while in the indiversity of the prosecutions was 205; while in the indiversity of the prosecution was 100; while in the indiversity of the prosecution instituted. The amount of the penaltics imposed in respect of the prosecutions regarding samples of milk taken in the half year amounted to £300 10s, 3d, the amounts of the penaltics for the years 1909 and 1010 being respectively £223 4s. 6d. and

The following table gives particulars of the numbers of samples of butter, margarine and nulk taken by officers of the local authorities in each of the years 1906, 1907, 1908, 1909 and 1910, the numbers of prosecutions and convictions, and the amounts of the penalties imposed:

		В	UTTER.				l	Ma	RGARINE			
YEAR.	No. of Samples taken.	No. of Prose- entions.	No. of Convic- tions,		nalt		No. of Samples taken.	No. of Prose- cutions.	No. of convic- tions.		malt	
				£	в.	d.	_			£	8.	d.
1906	4,655	189	160	151	15	7	170	13	10	16	15	1
1907	4,539	190	157	131	4	6	164	8	8	7	15	0
1908	1,538	168	137	121	18	0	173	16	14	24	6	0
1909	5,184	150	140	190	18	2	156	8	7	14	2	0
1910	1,655	124	116	111	14	10	137	9	8	8	18	1

	Muk.									
YEAR.	No. of Samples taken.	No. of Prosecu- tions.	No. of Convie- tions.	Penalties imposed.						
				£ s. d.						
1906	8,350	495	408	474 10 5						
1907	8,179	371	324	422 15 6						
1908	8,563	425	363	592 3 4						
1909	8,402	371	331	475 8 3						
1910	7,856	413	355	457 4 4						

Tables giving details as to the samples of butter, margarine, cheese, margarine-cheese and milk taken by Inspectors in the counties and the boroughs during the year 1910 and the half year ended the 30th June, 1911, will be found at pages 452-457 of the Appendices.

Sections 2 and 24 of the Sale of Food and Drugs Act, 1899,

\*\*samples taken by

\*\*perparties\*\* of the Sale of Food and Drugs Act, 1899,

\*\*empower the Department in relation to any

\*\*perparties\*\* of their officers to procure for analysis sam
their officers to procure for analysis sam-

YEAR 1910. their others to procure for analysis samples of any article of food. In accordance will directions given in the exercise of this power three officers obtained during the year 1910, 976 samples for analysis—970 samples as butter, 5 as margarine, and 1 as margarine-cheese. The samples were taken in 32 counties and in 4 boroughs.

Of the samples obtained as butter—22 of which were sold as salt firkin butter—34 (5 being salt firkin butter) were found to contain over 16 per cent of water, 1 was found to consist almost entirely of loreign fats and 1 was certified as containing 2612 per cent. of fats foreign to butter.

Prosecutions were undertaken by the local authorities in respect of 15 samples containing an excessive proportion of water. A conviction followed in each case and penalties amounting to £11 12s. 0d. were imposed. In 18 cases the excessive proportion of water was considered too small to warrant proceedings, in 3 cases notices as to the percentage of water in the butter were displayed, in 1 case the statutory time limit had, through an oversight, lapsed, and in the remaining 2 cases the local authority concerned did not proceed as the samples were of salt firkin butter and did not contain more than 20 per cent. of water. When the Department learned of the unwillingness of the local authority to prosecute it was then too late for them to empower one of their officers to institute proceedings (Section 3, Sale of Food and Drugs Act, 1899). There is, of course, no power on the part of a local authority to depart from the 16 per cent. standard in respect of any class of butter. The Sale of Butter (Ireland) Regulations, 1902, under which the presence of more than 16 per cent. of water in a sample of butter raises a presumption that the sample is not genuine, apply to all butter other than imported butter and butter which has been subjected to treatment in a butter factory, and it is the duty of each local authority to enforce the laws which aim at securing that food exposed for sale is in a pure and genuine condition.

Proceedings were instituted by the loss of mutury in respect of the sample which was found to consist almost entirely of lats foreign to butter. A conviction followed and a fine of £5 was imposed. As regards the sample found to contain 20 12 per cent. of lats foreign to butter, action for the institution of proceedings was not taken within the statutory time limit.

Infringements of the labelling clauses of the Sale of Food and

Drugs Acts appeared to have taken place in respect of four of the samples of margarine. Prosecutions were undertaken by the local authorities in 3 cases. A conviction resulted in each case, and fines amounting to £3 14s. 0d. were imposed. In the remaining case it was not found practicable to institute proceedings within the time limit.

As regards the sample of margarine-cheese, an officer of the Department was informed that comparatively large quantities of margarine-cheese MARGARINEwere purchased by dealers who sold it on CHEESE.

stands at markets and fairs in the North-East of Ireland. It was deemed desirable that definite information should be obtained as to the labelling of the margarine-cheese when sold by such dealers, and an Inspector of the Department was instructed to visit certain markets and fairs for the purpose of sampling. At one market a sample was purchased which was delivered in a wrapper on which the words "Margarine-Cheese" did not appear. Proceedings were instituted by the local authority; a conviction followed and a fine was imposed.

Three hundred and seventy-two samples were obtained during the half year ended the 30th June, 1911, HALF YEAR ENDED in 24 counties and 2 boroughs. Three 30th JUNE, 1911. hundred and seventy of the samples were sold as butter and the remaining two as

margarine.

Ten of the samples of butter were found to contain water in

excess of 16 per cent.

Proceedings were instituted by the local authorities in respect of 6 of these samples. Convictions followed in 5 cases, and fines amounting to £2 4s. 1d. were imposed. One case was dismissed on the ground that the water had not been fraudulently added to the butter. The Department were advised that application should be made to the magistrates to state a case. A question, however, arose as to liability for law costs, and as the sanction of the local authority for proceeding with the case could not be obtained within the period within which the application should be made, further action was not taken in the matter.

In two cases the proportion of water was only very slightly in excess of 16 per cent. In one case the analyst did not consider the percentage of water too high considering the weather, and in the remaining case it was not found practicable to have proceedings instituted within the time limit. In this case the Department suggested that the local authority should caution the vendor.

Fifteen of the samples taken were salt firkin butter, but in none of them was the percentage of water found to exceed

In one case, the margarine from which the sample was taken was not labelled in the prescribed manner and the sample was delivered in a wrapper on which the word "Margarine" did not appear. Proceedings were instituted by the local authority; a conviction resulted, and penalties amounting to £1 3s. 11d. were imposed.

Tables giving particulars as to the samples taken during the year 1910 and the half-year ended the 80th June, 1911, are

printed at pages 458-459 of the Appendices.

The number of premises registered as manufactories of mar-MANUFACTURE of Soft June, 1911, at 5 and 1 respectively. The number of premises registered for wholesale dealings in margarine or

IN MARGARINE. IOF Wholesale dealings in margarine-cheese was 180.

As compared with the figures for the 30th June, 1910, there was no change in the numbers of registered manufactories, but there was an increase of one in the number of premises registered for wholesale dealings in marganier. Notifications were received that during the year registrations of premises for wholesale during the year registrations of premises for wholesale of the second of the sec

A Table showing as on the 30th June, 1911, the distribution of the registered manufactories and wholesale dealers' premises

will be found at page 460 of the Appendices.

The registers which manufacturers of margarine and margarinecheese and wholesale dealers in these

cheese and wholesale dealers in these
articles are required to keep showing the
quantity and destination of each consignment sent out from their manufactories or

places of business are periodically inspected by officers of the Department. The information derived from these inspections is of much assistance to the Department in their work of supplementing the action of the local authorities in securing that the requirements as to the marking of parcels of margarine are duly worked to the control of the control of the control of the variable for index. In only one case was the register not the Department. On the whole the registers appeared to have been properly kpst.

The Department having learned that consignments were being sent as butter from Dublin to an institution MARGAINNE in the country considered it desirable to obsold as BUTTER tain a sample. Accordingly a sample was TO AN INSTITUTION obtained at the institution and was sub-NT IEE COUNTERY. mitted for analysis. It was found to be

margarine. Subsequently it was arranged to hand to an officer of the Department, with a view to

analysis, the weekly supply-15 lbs. of salted butter and 4 lbs. fresh butter-which was expected to arrive on a certain day. The package which consisted of a wooden box wrapped in brown paper with a label bearing the address of the consignee was received in February, 1911, at the railway station at Warrenpoint by the consignee and there delivered by him to the Department's officer. The box was found to contain two parcels each wrapped in plain white paper. Portions were taken for analysis and it was found that the sample taken from the larger package was "composed almost entirely of fats foreign to butter," the sample from the smaller parcel being pure butter. There was no mark to show that the large lump was composed of margarine. Proceedings were then instituted in the name of the consignee against the consignor for an offence under Section 6 of the Sale of Food and Drugs Act, 1875-selling to the purchaser an article of food which was not of the nature, substance and quality demanded by the purchaser. The case came before the Dublin Police Court in March when for the defence an objection was raised to the jurisdiction of the magistrate on the ground that the consignment having been sent "carriage paid," Warrenpoint was the place of delivery referred to in Section 20 of the Sale of Food and Drugs Act, 1875, and that, accordingly, the proceedings should have been instituted there. In Section 20 it is provided that: "When the analyst having analysed any article shall have given his certificate of the result, from which it may appear that an offence against some one of the provisions of this Act has been committed, the person causing the analysis to be made may take proceedings for the recovery of the penalty herein imposed for such offence, before any justices in petty sessions assembled having jurisdiction in the place where the article or drug sold was actually delivered to the purchaser, in a summary manner." The case was adjourned and was further argued on the 31st March, when an adjournment again took place. At the hearing, evidence was given on behalf of the defence to show that the arrangement was that the butter was to be delivered, carriage paid, at Warrenpoint. Judgment was delivered on the 21st April, the magistrate declining jurisdiction in the case. The magistrate held that under the contract, Warrenpoint was the place of delivery, and furthermore stated that in his view there could not be a successful prosecution anywhere as the magistrates at Warrenpoint had no jurisdiction to have a summons served in Dublin, and having regard to the precise language of Section 20 of the Act of 1875, the Dublin Police Magistrates were precluded from dealing with a case of adulteration where the debased article had been actually delivered to the purchaser outside the Metropolitan Police District. If this view is correct, and there does not appear to be ground for holding the contrary, it would be desirable that provision should be made whereby proceedings under the Sale of Food and Drugs Acts could be instituted as well before a Court having jurisdiction in the place

of sale, as before a Court having jurisdiction in the place of delivery.

The number of butter factories (i.e., premises on which by way of trade butter is blended, re-worked or subjected to any other treatment but not so makedanne act, as to ecase to be butter) registered with 1907. local authorities stood on the 30th June. 1911, at 173. The factories were situated

REGISTRATION OF in nineteen counties and in six boroughs.
BUTTER FACTORIES. On the 30th June, 1910, the number
registered was 145. Notifications were re-

ceived that during the year the registration of 36 factories had been effected and that in 7 cases registrations had been cancelled. The following is the distribution of the factories registered within the period :—two in Antim, one in Carlow, four in Cavan, eleven in County Cork, eight in Kerry, one in Leitrin, two in County Limerick, one in County Londonderry, one in Longton, one in Monaghan, one in County Waterford, one in County Westford, and two in the Borough of Cork. The premises when the county is the county in the county of the count

A statement showing the number of registered butter factories in each administrative area will be found at page 460 of the Appendices.

Officers of the Department visited a number of premises which were reported to be used as butter factories. The owners were informed as to the requirements regarding the registration of the premises with the local authorities concerned and in some cases the question of registration was brought by the Department under the notice of the local authorities. Registration followed in certain cases. In other cases the re-working of butter was discontinued.

Officers of the Department made, during the year, a large number of inspections in premises registered

INSPECTION OF as butter factories. In one case it was BUTTER FACTORIES, found that there was communication otherwise than by a public street or road between premises registered for wholesale dealings in

margarine and premises registered as a butter factory. The Department brought the matter under the notice of the local authority concerned and the use of the premises as a butter factory was discontinued. The registration was cancelled.

In no case during the year was there found in a butter factory any oil or fat which might be used as an adulterant of butter. On the occasion of inspections, inquiry was made as to the markings on boxes and wrappers in which the butter was forwarded from the factories. Suitable action was taken as to any descriptions regarded as misleading.

Officers of the Department took a large number of samples in butter factories during the year ended samples Taken in the 30th June, 1911. Many of the samples BUTTER FACTORIES. Were taken as a test and of these, 30 were

cent. In these cases the attention of the proprietors of the factories was drawn to the proportion of water found in the samples, and it was pointed out to them that the maximum proportion of water in butter should not exceed 16 per cent, and an explanation was sought. In several cases it was stated that the butter sampled had not been blended or re-worked in the factories in which the samples were taken.

In the case of one sample which was found to contain an excessive proportion of water, the proprietor stated that he had to use hot water in blending butter in cold, frosty weather. The case appearing to be one for instruction, the Department arranged for the visit of an Instructor to the factory who geve information as to the working of butter without the use of hot water.

These dings were in one case instituted in respect of a sample taken in a butter factory and found to contain Ir-1 per ent. of water. The question of the procedure in bringing forward a case of the kind formed the subject of correspondence with the local authority. The case having been twice adjourned was withdrawn.

Eighteen samples taken at butter factories in a northern district were found, on analysis, to contain a low PURITY OF BUTTER. quantity of volatile adids—the Reichart— Wollny figure falling below 24. Some of

Wollny figure falling below 24. Some of the samples were taken in November, 1910. FIGURE. Others were taken in the following March.

It was suggested that the proportion of volatile acids in the samples taken in November might in some cases be connected with the lectation period of the cows or particular conditions of weather, feeding or boasing. In the case of the samples taken in March, the result appeared to throw suspicion on the purry of the butter having regard to allow suspicion on the purry of the butter having regard to allow suspicion on the purry of the butter having properties to be considered to the control of the butter. The district was a poor, hilly one; the cows were rather of an inferior description, and, owing to the scarcity of grass in the early parts of the year were timed, as far as practicable, to cave in June or July. The samples having here taken in Wister case of the properties o

Whenever the Department have reason to believe that on any premises butter is by way of trade either made or stored, and that for the purposes

SPECIAL made or stored, and that for the purposes INSPECTIONS UNDER of the Sale of Food and Drugs Acts or the SECTION 2 (3) (b) Butter and Margarine Act inspection is OF THE BUTTER desirable, the Department may specially AND MARGARINE authorise an officer to enter the premises.

ACT. and in such case the officer has the like
powers of entry, inspection and sampling
premises were registered under the Sale of Food and

as if the premises were registered under the Sale of Food and Drugs Acts or the Butter and Margarine Act. (Butter and Margarine Act, 1907, Sections 2 (3) (b) and 14 (1)).

In nine cases this power of entry by special authority was exercised during the period under review. In four of these cases the Department desired to ascertain whether the premises were being used as butter factory, but of the desired to followed the inspection. In another case the premises had been registered as a butter factory to notification of the registration had not been received by the Department. In the third case no butter was found on the premises, and it was stated that no blending or re-working was carried on. In the fourth case, butter was no being blended on re-worked as the time of the premises. It is understood, however, that butter is purchased from farmers and is salted and made into rolls in the premises. The question of having the premises registered is receiving attention.

In each of the remaining five cases the premises to which entry was authorised were occupied by traders. No irregularity as to labelling was discovered in respect of samples taken in two of the cases. Eight samples were taken in the one case and four samples in the other.

In a third case, seven samples were taken, four of which were certified by the Analyst as consisting nearly altogether of fast foreign to butter. In none of these cases was the substance from which the sample was taken marked "margarine," and in one case the sample was delar instance. The piece from which the word "margarine" did not appear. The piece from which the sample was taken was, at the time the Inspector entered the sample was taken was, at the time the Inspector entered the against the labelling clauses of the Margarine Act, 1887, were instituted by the local authority. A conviction followed and a fine of £10 was imposed.

In a fourth case, six samples were obtained. Two of the samples were taken from cardboard boxes which were enclosed in brown paper, but neither the boxes nor the outer wrapper bore any marks to show that the substance enclosed was margarine. The paper in which the article was enclosed in the boxes was marked "margarine," Proteedings were instituted for indicated in Section 6 of the Margarine Act. 1887, i.e., Dranded or durably marked "margarine" on the top, bottom and sides. For the defence it was contended that such marking was not necessary as the boxes were prepared for transmission by post marked in the namer recuired by the Section, peakages were marked in the namer recuired by the Section.

In the fifth case, of seven samples taken, six proved to be pure butter. The remaining sample—margarine—was taken from a roll which was enclosed in a carton box and which was wrapped in three butter papers, the inner paper being marked "margarine." Proceedings were instituted for not having the box marked "margarine." In view of the decision in the

previous case, this case was withdrawn.

During the year ended the 30th June, 1911, applications for the approval of 97 names for use in connection.

\*\*NAMES FOR WITH MARGARINE.\*\*

MARGARINE.\*\*

Department. Approval of 93 of the Department. Approval of 93 of the same was issued. In one case approval was issued to two applicants. Sixteen of the names had pre-

viously been approved.

A list of the approved names will be found at page 461 of the

Appendices.

Lists of approved names are issued by the Department to local authorities for the information of officers engaged in the administration of the Sale of Food and Drugs Acts.

The Commissioners of Customs and Excise inform the Department that their officers took at Irish Ports during the year ended the 30th June, 1911, AT IRISH PORTS. 22 samples under Section 1 of the Sale of Food and Drugs Act, 1899, and Section 5

of the Butter and Margarine Act, 1907, viz. .-6 samples of margarine at Dublin, 10 samples of margarine, 1 sample of the sample of margarine, 1 sample of butter and 1 sample of condensed milk at Belfast, and 4 samples of margarine at Cork. One of the samples of margarine taxt at Dublin was found to contain 169 per cent of water. The importer was prosecuted and fined 21 with £2 costs.

The Department were informed that samples of butter which had been consigned to Birmingham by a gonte acto. I trader in Ireland had been found to be adulterated with borie preservative to a serious extent. Further samples of the butter consigned by the tunder were, it was stated, obtained, and on analysis were found to contain borie preservative equivalent to 1º2 and 1º8 per cent, of borie acid. An officer of the Denattment called on the

consignor and drew his attention to the recommendation made in 1901 by the Departmental Committee on Preservatives in Food as to 0.5 per cent. expressed as boric acid being the maximum proportion of boric preservative that should be allowed to be used in butter. The consignor intimated that he would, as far as practicable, case to use boric preservative in butter, and that in any case in the life with the control of the exercising indicated in the recommendation.

The Department were also informed that a sample of margarine which, it was stated, had been supplied by an Irish firm was found to contain 18'6 per cent. of water and '65 per cent. of borie acid. The Department had a sample of margarine taken at the premises. The sample was found, on analysis, not to con-

tain either water or preservative in excess.

page 461.

It seemed to the Department that advantage would result if a notice were widely circulated drawing property of the property of which is printed in the Appendices,

A list of the Analysts under the Salc of Food and Drugs Acts
for the Boroughs and Counties in Ireland
will be found at page 462 of the Appendices.

### The Merchandise Marks Acts. (Ireland).

A considerable number of cases as to the application of misleading descriptions to various articles received attention.

Blended butter had been described as creamery butter; butter which had been reworked had been described DESCRIPTIONS: as creamery butter or dairy butter; butter made from set cream had been forwarded

in boxes on which the words, creamery butter, had been branded; and foreign or colonial butter had been enclosed in boxes or wrappers marked in such a manner as might lead to the conclusion that the butter was made in Ireland. The Department communicated with the persons concerned, with the result that in several cases the descriptions were altered, and in others the use of boxes bearing the markings to which observed may as the markings to which observed was also sombured.

to which objection was taken was discontinued.
Four prosecutions in regard to butter were undertaken at the
instance of the Department. Three of the cases related to the
application of the description creamery butter to butter which
was pronounced by experts to be factory butter. In the
remaining case margarine was supplied as butter.

In one of the three cases, two packages of butter were purchased at a creamery by an officer of the Department—the words, creamery butter, prosecutions, appearing on the wrappers and carton boxes in which the butter was enclosed.

The butter was examined in what the butter was enclosed. The hast it was factory butter. Instructions were then given for a prosecution. When the case came up for hearing, the defence brought forward evidence that the butter in each package was made in the creamery and had not been reworked. The Bench was evenly divided and the easy was adjourned. The case was a was evenly divided and the easy the was adjourned. The case was to enviet, and the proprietor and the manager were each fined I with costs. On the application of the defence the fines were increased to £1 Lr., so as to permit of an appeal. An appeal was lodged and the case was inearly at the Queen the cost of th

In the second case, two packages of butter which were purchased on different dates by an officer of the Department at the premises of a trader in Dublin, and which were described as Irish creamery butter in the receipts given to the officer were pronounced by experts to be factory butter. The carton boxes in which the butter was enlosted were marked so as to indicate that the butter was that of a well-known firm in Ireland, but the butter was not described on the boxes as creamery butter. Proceedings were instituted against the trader for the sale of butter to which a false trade description had been applied. A

conviction resulted, and a fine of  $\dot{\Sigma}$  with \$2 costs was imposed. In the third case, the proceedings were in respect of a sample of butter purchased at premises in Listowel. The butter was enclosed in a wrapper marked "Presi Creamery Butter," and was described as creamery butter on the receipt given by the vendor. Two experts who examined the butter expressed the opinion that it was factory butter. The defendant pleaded

guilty. A fine of 2s. 6d. with costs was imposed.
As regards the proceedings in respect of the sale of margarine
as butter, it was reported to the Department that a trader in
Dublin had supplied as butter to a customer an article which was
believed to be margarine. The supply on three occasions was
sampled, submitted for analysis, and found to be composed any
sumpled, submitted for analysis, and found to be composed and
the submitted for analysis of the submitted for the submitted for analysis of the forest of the submitted for analysis of

The question of the descriptions under which eggs were exposed for sale received constant attention. Inquiries were made as to the markings on boxes of imported eggs. No case for proceedings arose in Ireland during the period. Through the

instrumentality of the Department's Inspector, proceedings were instituted in Great Britain. Particulars of the cases will be found on pages 181-2.

A case in which Danish pigs' heads were supplied to at Irish trader—trish pigs' heads having been ordered—was brought under the notice of the Department. The question of proceedings under the Merchandise Marks Acts was considered but the evidence was not regarded as sufficient for a prosecution under

the Acts.

Inquiry was made as to sales of foreign meat in Ireland, but no evidence that the meat was sold as Irish was obtained. The question of the description applied to harms exported from Ireland, but not of Irish origin, was looked into. No evidence of irregularity was forthcoming.

Representation was made to the Department that large quantities of imitation cider were being sold as cider, with consequent injury to the genuine cider

industry. Test samples were submitted by the Department for analysis and were found to be artificial preparations containing no cider. Purchase was then made in Dublin of a quantity of a beverage described as the "Celebrated Cyder" of a certain firm-the words "Not Guaranteed Pure Apple Cyder" being added. In the receipt given by the vendor the beverage was described as the firm's "Cyder." On analysis it was found that the article was not genuine eider. Proceedings were instituted under the Merchandise Marks Act for the application of a false trade description "Cyder" to the beverage, and for the sale of the beverage so described. The case was twice adjourned, on the second occasion pending the decision in a case in Dublin undertaken by the Local Authority under the Sale of Food and Drugs Acts in respect of the sale of a sample of the beverage as cider. In this case, the magistrate held that the beverage was not cider—the analyst stating that there was no evidence that the beverage contained apple juice-and that the label on the bottle to the effect that the contents were not guaranteed pure apple cider was not sufficient to bring the vendor within the protection afforded by Section 8 of the Sale of Food and Drugs Act, 1875. When the case brought by the Department came subsequently before the Court, the defendant pleaded guilty and an undertaking that a name other than Cyder would be used for the beverage was given on behalf of the manufacturers. A fine of 20s. was imposed.

Proceedings under the Sale of Food and Drugs Acts in respect of the sale of imitation cider were successfully instituted in other

cases by Local Inspectors under the Acts.

The attention of the Department was also drawn to the use of the name, "Champagne Cider," for aerated waters. Correspondence took place in the matter between the Department and mineral water manufacturers, and in a number of cases the Department were informed that the use of the name would be discontinued. In other cases correspondence is still proceeding.

Action was taken to ascertain whether articles sold as linen were really of that description.

LINEN. In one case, collars purchased at the premises of a firm in Dublin and described as

linen on the receipt given by the vendor were found on examination to be made from cotton. Proceedings were instituted, a conviction resulted, and a fine of £5 with £5 costs was imposed. A case was brought under the notice of the Department in

which the markings applied to certain handkerchiefs were regarded as indicating that they were of Irish manufacture. It was ascertained that the material in the handkerchiefs was not made in Ireland, and, at the suggestion of the Department, the markings were altered.

Under the Merchandise Marks (Ireland) Act, 1909, the Department are empowered to make, with the consupplementary currence of the Lord Chancellor of Ireland

SUPPLEMENTARY currence of the Lord Chancellor of Ircland and of the Board of Trade, regulations providing that in certain cases the prosecution in Ircland of offences under the Merchandiss Marks Act, 1887, be undertaken by the Department. Accordingly, the Department made Regulations dated the 14th April, 1910, and

1887, be undertaken by the Department. Accordingly, the Department made Regulations dated the 14th April, 1910, and a Supplementary Regulation dated the 51st October, 1911. Copies of the Regulations will be found at pages 468-4 in the Appendices.

Action taken by the Department's Staff in Great Britain.

The Department's staff in Great Britain for the prevention of frauds affecting Irish produce consists of an Inspector and four assistants. During the period the premises of traders who had previously either been warned or prosecuted in connection with misleading descriptions of goods sold by them were visited and it was gratifying to observe that much greater care was being taken was gratifying to observe that much greater care was being taken the action taken by the Inspector resulted in greater prominence being given to displays of ecanine Irish goods.

Numerous purchases of articles described as Irish or in such a manner as to suggest that the goods were of Irish origin were made. Several eases were brought into Court. In other cases, a warning to the vendors was considered sufficient.

There is no doubt that considerable injury is being suffered by
the Irish butter industry owing to fraudunutree. lent sales of margarine, especially in the
poorer districts. In many cases the Inspector's assistants co-onerated with the officers of local authority

ties in making purchases at the premises of suspected traders. Samples were taken in this manner in Glasgow, and proceedings were instituted by the Glasgow Corporation against nine traders. In seven cases the proceedings were for the sale of margarine as Irish butter, and in the remaining two cases for breaches of the labelling clauses of the Sale of Food and Drugs Acts. Convictions were obtained in all cases, and penalties ranging from 12s or three days' imprisonment to 815 or thirty days' into the proposed. The statement made by the defoundant at the in-imposed. The statement made by the defoundant at the proposed. The statement made by the defoundant at the proposed of the statement of the proposed of the statement of the proposed of the statement made by the defoundant at the proposed. The statement made by the defoundant at the proposed of the statement made by the defoundant at the proposed of the statement of the proposed of the statement of the proposed of the statement of the statement made by the defoundant at the proposed of the statement made by the defoundant at the proposed of the statement of the

As a result of the sampling in the Borough of St. Pâneras by the Inspector's assistants, summoness were issued by the Local Authority against fourteen traders for the offence of selling margarine as Irish butter. A fine of £2 with costs was imposed in each case.

Complaints were made to the Inspector that factory butter was being sold as Irish creamery butter. Investigations were made, but no case arose which was suitable for taking into Court.

Several cases of dispute as to the quality of Irish butter or the preentage of moisture in the butter were brought under the notice of the Inspector. The butter was examined, and the result conveyed to the parties concerned. In most cases a satisfactory settlement followed.

Complaints as to damage to consignments of butter forwarded from Ireland, or delay in the conveyance of the consignments, were also investigated.

There is no doubt that the practice prevails to a considerable extent of packing foreign eggs into the Irish type of case not marked in any way to show the country of origin. Premises in which

it was suspected that such repacking took place were under observation, and in some instances, warnings were given as to the penalties liable to be incurred by selling foreign eggs as Irish. Proceedings under the Merchandies Marks Act were instituted by the Crown Agent, Edinburgh, at the instance of the Inspector, egginat a trader in Coatbridge for selling as Irish, eggs alleged to be Russian. The case was, however, withdrawn owing to the death of the defendant.

The Board of Agriculture and Fisheries prosecuted at the instance of the Inspector, a Index in Liverpool for the sale for Russian eggs as Irish. A conviction resulted, and a fine of £5 with £10 los, costs was imposed. It appears that, the fine that with £10 los, costs was imposed. It appears that, the fine been issued.

A trader in Preston was prosecuted by the Board of Agriculture and Fisheries, under the Merchandise Marks Act, at the instance of the Inspector, for the sale of foreign eggs as Irish. A fine of 25 with 211 11s. 6d. costs, was imposed. In cases of this kind, difficulties arise regarding expert opinion as to the country of origin of the eggs. The difficulty was shown in a similar case in Preston in which the Board of Agriculture and Fisheries also proceeded under the Merchandise Marks Act, at the instance of the Inspector. The experts to whom the eggs were submitted by the Inspector expressed the opinion that they were Russian. For the declene, evidence was given that it was not possible from external examination of eggs to determine the country of their origin of eggs submitted in Court. The defence stated that the opinions expressed were incorrect, but no evidence was called to this effect. The case was dismissed.

Much attention was given to the question of the marks applied to bacon, and in several instances in which sacon. the markings of bacon of foreign origin were likely to lead to the belief that the bacon that it is that the traders concerned, on being cautioned, expressed their readiness to discontinue the descriptions which were re-

garded as misleading. One result of the action taken was a large display of Irish bacon at several establishments.

Proceedings under the Merchandise Marks Acts were instituted in two cases. In one of the cases, one of the Inspector's assistants purchased, at Glasgow, a ham which was described as "Finest Belfast Smoked," but which was found to bear the Danish Government Mark. The case was brought under the notice of the Lord Advocate, and proceedings were instituted on his behalf by the Procurator Fiscal. The defendant was convicted, and a fine of £1 1s. was imposed. In the other case, an officer saw in a shop in Glasgow pieces of bacon which were ticketed "O'Mara's Hams and Bacon, Limerick." On examination of the bacon it was found that the Danish Mark appeared on the part which was not exposed to the view of the purchaser. The shop assistant admitted that the bacon was Danish. The proceedings were also instituted by the Procurator Fiscal. The defendant was fined £10, or, in default of payment, he was to be imprisoned for three months.

Instances of advertising, as Irish linen, goods which did not appear to be of that description earne under the notice of the Inspector. Representations were made to the advertisers concerned

in cases in which such action was regarded as sufficient.

Proceedings were instituted by the Board of Trade, under
the Merchandise Marks Act, against a firm trading in Manchester
as the "Belfast Linen Society" for the application of a false tund
description to handkerchiefs sold to the Inspector's assistant.
The handkerchiefs were described as "Finest Quality Irish
Linen Cambrie," but were found on examination to be composed
of cotton. The Company were fined 252 and costs, 25 guiness.

extra costs being allowed. An assistant who sold the handkerchiefs was fined £1 with costs. The premises are no longer known as those of the Belfast Linen Society.

In another case, proceedings were instituted by the Board of Trade against a firm trading as "The Irish Linen Combine," Newcastle-on-Tyne. Collars and handkerchiefs purchased at the premises as Irish linen by the Inspector's assistant proved to be composed of cotton. The Combine represented in their invoices that they were maunifecturers of shirts, collars, handkerchiefs, hosiery, etc., and had marked on the collars a trade mark containing a representation of Ireland, and the words "Irish Linen Combine, Manufacturers. None genuine without this Linen Combine, Manufacturers. None genuine without this The case in respect of six collars as of not study against the firm. The case in respect of six collars as of not study to the control of the study of the case in respect of six collars as of not study in the study in part of the case in respect of six collars and the study of the study of the case in respect of six collars and the study of the case.

A trader in Cardiff was also prosecuted for applying the description, "Linen" to collars, which, on expert examination, proved to be made from cotton. The proceedings were instituted by the Board of Trade, at the instance of the Inspector. A plea of guilty was entered. A small fine was imposed. Numerous cases came under notice of "union" faced collars

Numerous cases came under notice of "union" faced collars being described verbully as "linen," all linen," and "real linen." There appears to be very little doubt that sales of cotton or "union" collars, as linen, take place to no small extent.

Complaint had been made to the Inspector that damasks were

sold as "Hand Loom" damasks at prices considerably below the correct market price of genuine Irish Handloom damasks. Samples of the goods described as "Hand Loom" in the catalogue issued by the firm in question were purchased, and were found, on expert examination, to have been made on power looms. In some instances there were indications that the damask was Irish made. The attention of the firm was drawn to the matter, and it was pointed out to them that the damasks were not marked in accordance with the Irish Handloom Weavers Act, 1909.

The firm stated that the goods were purchased as handloom by them, but without any written guarantee. The damask was, it appeared, of foreign manufacture.

Markets and Fairs (Weighing of Cattle) Acts, 1887 and 1891.

Upwards of 280 inspections and enquiries were made during the year ended the 80th June, 1011, NEFECTIONS.

INSPECTIONS.

Officers of the Department in regard to the provision of accommodation at fairs. Representations as to the need for the provision of adequate

weighing facilities were made to the market authorities or the auctioneers concerned in cases in which it was considered that such facilities should be made available.

New machines for weighing cattle were provided at the Callan,
Edgeworthstown and Knocknagwe fairs,
WEIGHING
and various improvements were effected in
ACCOMMODATION: the weighing accommodation at the fairs
held at Balla, Ballimsake, Dummanway,
Enniskillen, Kilfmane, Kilkenny and Swinford. Machines
were also made available for weighing cattle brought for sale at

the Drumshambo fair and at an auction mart at Navan.

In several cases the Department are in communication with market authorities as to the provision of new or improved weighing accommodation.

The Department issued during the period, in respect of thirtynine fairs and seventeen auction marts, Orders exempting Market Authorities and Auctioneers from the obligation to provide

accommodation for weighing cattle. A list of the fairs and auction marts will be found at page 465 in the Appendices.

I have the honour to be,

Your Excellency's faithful servant,

T. W. Russell, Vice-President.

T. P. Gill, Secretary.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND, UPPER MERRION STREET,

Dublin, 24th February, 1912.



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Instruction in Fruit Growing and General				. 2
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Ballyhaise ,, ,,				. 2
Classicities	· ·			. 2
Manus Dallana Callana				. 2
The Munster Institute, Cork,	, .			. 2
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	ımna.			. 9
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#### PARLIAMENTARY GRANT.

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ACCOUNT OF PARLIAMENTARY GRANT in the Year ended 31st March, 1911.

RECEIPTS.		PAYMENTS.										
Parliamentary Grant 416,366 0 Appropriations in Aid 7,409 13			000									
apparo, essentino de la companya de		Special Services and incidental ex- penses, 3,134 2	8									
		Colle tion of Agricultural and Traus Statistical, under Sec. 15 (d) and (f) of the Agriculture and Techni- cal Instruction (Freland) Act, 1899, and sec. 49 of the Irish Land Act,	6									
	1		ő									
		Instructions of Science and Art. Salaries and Wages,										
		(Grant in Aid), 2,300 0	0									
			0									
		Royal College of Science—Purchase	7									
		for Laboratories, &c. (Grant in 10 500 0	θ									
		Royal College of Science Prizes, Scholarshine and Examinations . 3,426 10	1									
		School of Art—Prizes, &c., 595 10	9010									
			0 2 10									
		SCHOOLS OF SCIENCE AND ANY, &C. Annual Grants to Schools and Classes of Science and Art and Technical Instruction, Grants for Drawing and Manual In-	11									
		Grants for Drawing and annual 11st siruction in Miscellaneous Schools 1,618 19 Grants for Day Secondary Schools, 27,583 12	1									
		GEOLOGICAL SURVEY OF INSLAND. Salaries. 1,937 17 Travelling. 322 6 Incidental Expenses, 45 9	10									
		Congested Districts Board—Grant in Aid, 62 & 63 Vic., cap, 18, s. 5, and 9 Edw.7, cap, 43, s. 49, 169,759 0	0									
		Tobacco Growing Experiments (Grant in Aid), 6,000 0 Foresty Operations, 3,839 1	0 11									
		Horse Breeding 4,600 0	9									
		Balance on 31st March, 1911,	5									
Total, . £493,775 13	0	Total	4									

## SUSPENSE ACCOUNTS.

-	Balance on lst April, 1910						Payn ir 1910-	1		Balance on 31st March, 1911.			
Purchase of Speci- mens for Museum	£	8.	d.	£	8.	d.	£	8.	d.	£	s.	d.	
(Grant in Aid Fund) Purchase of Books for National Library	568	14	9	2,300	0	0	2,195	1	5	673	13	4	
(Grant in Aid Fund) Royal College of Science—Purchase of Specimens, Books, Apparatus for La- boratories. &c.	199	12	0	1,300	0	0	1,439	16	1	59	15	11	
(Grant in Aid Fund) Tobacco Growing Experiments (Grant	1,325	18	10	10,600	0	0	1,362	14	2	10,563	4	8	
in Aid Fund) . His Majesty's Sta-	3,673	7	10	6,000	0	0	3,463	7	10	6,210	0	0	
tionery Office, . Local Science and Art Scholarshins	1	19	6	15	19	1	15	10	10	2	7	9	
and Exhibitions, . Examination fees—	55	0	0	167	14	0	192	14	0	30	0	0	
South Kensington, Students' deposits— Royal College of	-	-		164	3	6	164	3	6	-	-		
Science, Improvement of Horse Breeding— Development Fund	51	13	9	13	0	0	11	0	0	53	13	9	
Account, General,	=	-		5,386 72	1 16	6	4,600 72	0 16	6	786	- 1	1	
Total,	5,876	6	8	26,019	14	2	13,517	4	4	18,378	16	6	

## GENERAL CATTLE DISEASES FUND (IRELAND), INCLUDING

Account of RECEIPTS and PAYMENTS in respect of the GENEBAL PNEUMONIA ACCOUNT (IRELAND), for the

Recorre			
£ s. d.	a.	г.	d
Balance on 1st April, 1910			
General Cattle Diseases Fund (Ireland), 10,818 11 3			
Cattle Pleuro-Pacumonia Account for Ireland,			
	10,818	11	
GENERAL CATTLE DESCASES FUND (ERELAND) (67 and 38 Vict., cap. 57, sec. 71 (1))-			
Assessments on Local Authorities, 14,878 6 7			
Proportion of Fines,	15,231	11	
CATTLE PLEURO-PNEUMONIA ACCOUNT FOR IRELAND OF THE GENERAL CATTLE DISEASES FUND—			
Parliamentary Grant-in-Aid of the Account, under the Discusses of Animals Act, 1894 (57 and 58 Vict., a. 51), for general expenses, including special expenditure for the protection of im- ported Cattle, 100 0 0			
Parliamentary Grant-in-Aid of the Account, for the costs of the execution of the Diseases of Animals Act, 1894 (57 and 58 Vect., c. 57), as respects Swine Fever, 16,000 0 0			
Parliamentary Grant-in-Aid of the Account, in respect of expenses in connection with the suppression of Rabbes, . 100 0 0	10,300		
Salvare.	3,907		
Transferred from the General Cattle Diseases Fund (37 and 58 Vict., c. 57, section 73 (3)),	5,483	7	

### THE CATTLE PLEURO-PNEUMONIA ACCOUNT FOR IRELAND.

CATTLE DISEASES FUND (IRELAND), including the CATTLE PLEURO-Year ended 31st March, 1911.

		PAYM	ENTS.							
					- e	٥.	a.	· £	4.	d.
GENERAL CATTLE DISEASES ]	PUND (	IRELA	ND)—							
Recoupments to Local Auth c. 57, secs. 71 and 72)	orities	(57 an	d 58 Vi	let.,	8,802	19	1			
Fors,	٠.				30	17	.0			
Travelling Expenses, .					2	9	3			
Miscellaneous Expenses, .					321	14	4			
Transferred to Cattle Plem for Ireland (57 and 58 Vic	o-Pna t., c. 5	moni 7, sec.	a Acco	unt	5,483	Ŷ	. 9			
				-		_		14,641	7	5
CATTLE PLEURO-PNEUMONIA OF THE GENERAL CATTLE	Accou Deseas	NT FO	r Inel. Ne—	AND						
General Expenses-										
Salaries (including the ployed in cleansing, ecc.),	pay of liminfee	the tion,	Staff o	ing,	6,712	18	10			
Fees,		٠.		.`	245	17	6			
Travelling Expenses, .			-		2,029	9	9			
Compensation to owners	of slam	chtere	d Swin	e	9.044	6	8			
Miscellaneous (including to cleaning and disinfect in killing, burying, br animals, and other pet	ion, an	d cas	uai lab		8.57	8	5			
						_		18,89	1	2
Rabies Expenses—										
Salaries and Fees, .					_					
Travelling,	٠.	٠.			- 1	6	2			
Misrellaneous Expenses,					-					
				-		-		1	6	2
Balance 31st March, 1911-										
General Cattle Diseases Fu	nd (Ire	dand)			11,409	0	11			
Cattle Pieuro-Pneumonia A	coount	for I	reland,	٠	_	_	_	11,400	0	11
	Total.							44,941	11	

[Fund administered by the Department, in concurrence with the as regards certain special sums mentioned in Section 16 of the Act Industries, and Technical Instruction; Agriculture and Technical

Account of NET RECEIPTS and PAYMENTS by the Department in re-

Section of ct, 62 & 63 Vict., c. 50	Receipts.														
				,											
	Balance on 1st April, 1910,	49,828	6												
	Parliamentary Grants-														
15 (d.)	Sum payable as an equivalent for the Salaries attached to Judgestips abolished, &c., in pursuance of the Supreme Court of Judiesture (Ireland) (No. 2) Act, 1897, 60 and 61 Vict., c. 66,	12,000	0												
16 (/.)	Sum representing the amount of expenses formerly paid out or Parliamentary Grants in connexion with instruction given in Ireland in Agriculture, exclusive of such instruction given in Elementary National	6,000													
-	Schools,  Grant in Aid under Sec. 49 of the Irish Land Act, 1900, 9 Edw. 7, c. 42,	19,000	0												
	Local-Taxation (Ireland) Account-														
15 (a.)	Sum formerly payable to the Commissioners of National Education under the Local Taxation (Ons- toms and Excise) Act, 1899, 33 and 34 Victo, c. 69, Sec. 3,	78,000	۰												
-	Sum payable under the Agriculture and Technical Instruction (Ireland) (No. 2) Act, 1992, 2 Edw. VII., c, 33	5,000	0												
15 (b.)	Irish Church Temporalities Fund—Annual sum payable,	70,000	0												
15 (c.)	See and Coast Fisheries Fund-54 and 55 Vict., c. 48,	5,243	0												
-	s. 35 (5), Loans Repayments, &c., Interest on Securities and on Moneys deposited,	8,571	13												
-	Contribution from Ireland Development Grant (Grant in Aid), 3 Edw. VII., c. 23, for the purposes of Tech- ples I feature ion	7,000													
-	nical instruction.  Leans for Bulls, Stallions, Pasteurising Plant, Fencing, Spraying, Village Halls, Hand Separators, &c., and to Agricultural Credit Societies (Repayments.)	16,593	4												
	. <u>.</u>														
	Total,	£277,23		_											

Agricultural Board and the Board of Technical Instruction (except a, b, d, e, f), for the purposes of Agriculture, Fisheries and other Instruction (Ireland) Act, 1899, 62 & 68 Vict., ch. 50, and other Acts.]

spect of the Endowment Fund for the Year ended 31st March, 1911.

Section of Act 52 & 63 Vict., c. 50.	Payments.
16-1 (ð.)	Purchasing and stocking additional land, and providing $\ell = s - d$ .
	suitable buildines, fittings and appliances for the Munater Institution. Grants sanctioned with the concurrence of the Board of Technical Instruction—
(c.) i.	O'entry Boroughs,  Technical Instruction—  O'entry Boroughs,  Lisewhere than County Boroughs and making inquiries and collecting, &c., information for the purposes of Technical Instruction,  15,948 1 10
_	
16-1_(d.)	poses of Technical Instruction, 4,682 18 1 Sen Fisheries, 9,957 4 9 Arklow Harbour Extension—Ireland Development
15 Å (e)	Grant Sea and Coast Fisheries Fund, 54 and 55 Vict. c. 48 415 18 6
16-1 (c.	Supergunuation of Officers transferred from National 10,972 7 16
" (f.)	Education Office, Taveling and Subsistence of Members of the Council and Boards. 499 10 8
= 1	Dunraven Scholarship Fund
16-1 (g.)	Grants sanctioned with the concurrence of the Agricul- tural Board— Agriculture and other Eural Industries (including
	Expenses incurred under Section 17)—
	Agricultural Instruction: Alhert Agricultural College, 4,509 18 3
	Athenry Agricultural Station
	Cionakitty do.,
	Albeet Agricultural College, 4,609 18 3 Muniter Institute 1,482 0 6 18 3 Muniter Institute 1 1,482 0 6 18 2 18 2 18 2 18 2 18 2 18 2 18 2 18
	Pioneer Lectures, Judging of Farms, &co., 1,733 1 10
	Forestry, 2.362 17 8 Improvement of Live Stock, 7,906 13 6 Insurance of Live Stock, 1 8 6
	Special Andstance to Agricultural and other Shows, . 369 0 9
	Votes to County Committees:
	Shows, 3,579 8 8 General Administration, 4,775 12 7
- 0	Improvement of Butter Industry, 4,963 0 9 Loans for Bulls, Stellions, Feneius, Spraying, Vällage Halls, Hand Separators, &c., and to Agricultural Credit
	Special Investigations,
	Marine Works, 5,652 10 10 Inland Fisheries, 2,861 16 5 Travelling of Members of Special Committees, 109 1 2
-	Travelling of Members of Special Committees, 109 1 2 Expenses in connection with Fertilisers and Feeding
	Interest of Irish Agricultural Produce
	227.820 5 10
-	BALANCE ON 31st MARCH, 1911, 49,416 7 10
	Total,

<sup>\*</sup> This sum includes the expenditure of a Grant of \$10,600 from the Agricultural Bfee Manual Instruction and the teaching of Domestic Economy in Rural District

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#### Defails of Special Investigations (Endowment Fund) for the Year ended 31st March, 1911.

	Gross			Receipts	Net Ex- penditure.			
		8.	d.	£ &	d.	£	s.	d.
Flax Scheme,	1,104	3	9	525 2	6	579	1	3
Feeding Experiments (pigs,								
calves, &c.),	0	1	11			-0	1	11
Cheese-making Experiments	79	.1	0	·		79	.1	0
Poultry Industry,	4,132		4	3,402 2	4		15	8
Potatoes,	345	8	8	_		345 572		
Horticulture,	572 586	*	8			586	8	
Tobacco Growing,	681	8	4	37 13	4	643		
Seed Testing, Implements for Experiments,	81		2	01 10	*	81		
Purification of Creamery	01	10		_		01	10	
	٠			30 0	0	* 30	0	
Sewage,	559	0	0	- 00		559		
Wheat Experiments,	223		i	_		223	2	-
Oats Experiments,		10		1 -		10	10	- 6
Winter Dairying Scheme,	436	0	4	-		436	0	4
Cattle Mortality (Diseases in	-							
Farm Animals : Royal Vet-								
erinary College Grant;	i							
Warble Experiments), .	295	5	5			295	5	- 1
Technical Aid to Industries						1		
(Dead Meat Trade, &c.), .	52	8		-		52	8	
Nitrogen Tests, &c	12	4	1			. 12	4	
Total.	9.171	19	2	3,994 18	2	5.177	1	-

#### Details of Miscrillaneous Expenses (Endowment Fund) for the Year ended 31st March, 1911.

Sub-Hend.	Gros			Receipts.	Net		
U	£		d.	£ s. d.			
Journal and Lesslets,	371	16	0	_	371	16	0
Technical and Clerical As-				1			
Sistance,	3,433			-	3,433		
				12 0 1			0
Motor Service,	213				213	4	9
Circulating School Exhibits, .	442	3	10	472 12 11	*30	9	1
Erection of Notice Boards,							
carriage of leaflets, &c.,	6	8	8	_		8	
Railway, &c., Rates inquiries,	436	1	0		436	1	0
Travelling of candidates tes-							
ted for appointments,	179			-		9	9
Village Libraries, Village Halls,	17	18				18	
Village Halls,	75	0	0	_	78	6 0	0
Inspection of Agricultural	!						
Credit Societies,	262	14	3	1 3 4	26	10	11
Law Charges (execution of							
loan bonds, &c.),	56					3 4	
General,	37	12	5	12 18 10	2	1 13	7
Employer's Liability In-	1			1 -			1
surance,	84	0	0	2 12	8	1 7	6
Total	- 070			FO1 10	E 47	1 6	. 0

Nature of Lonns.	out 31st	Loans istandi: March,	o o	a 10.	Loans issued in 1910-11.				Principal repaid in			Interest received		d	Loans outstanding on Slat March, 1911.				
National of Monance	No.	Amo	unt		No.	Amo	unt	. '	. 1910	-11		191	0-1	1.	No.	Amo	unt		
			4.	à.		A	ε.	ď.	£	·	4.	£	0.	d.		R	8.	ď.	
e the purchase o		6,359	13	9	231	5,811		4	4,579	5	11	167	15	2	396	7,583,	4	7	
the purchase callons,	. 82	4,826	18	2	32 .	3,145	. 2	3	1,528	3	10	114	14	7	103	6,443	16	2	
Agricultural Credi		10,023	0		1	150	0	0-	1,737	4	5	291	-9	3	118	8,415	15	7	
the erection of Par		3,401	10	0	70	1,244	0	.0	425	7	9	76	0.	10	233	3,220	2	3	
eridar Plant I	1 1	159	0	0	-	4	٠.						-		- 1	152	0	4	
Hand Separators.	. 66	371	10	1	27	218	17	2	211	17	1	19	18	4	80	578	10	2	
Hoese Sprayin	. 101	617	16	4	11	98	17	3	333	18	10	18	3	3	90	390	14	1	
Industrial Develop	3	2,564	11	3	-	-	_		21	10	3	1	7	-1	. 3	543	1	4	
erection of Villag		1,364		0	2	300		0	147	10	0	20	10	11	4	1,512	10	,	
renairing & equip	. 3	180		0	1-	-	_		36	0	0	5	1	7	2	144	0	,	
Total	592	98 649	10	- 6	29.6	16 946	14	0	9.020	10	1	708	1	0	1039	28,773	14	1	

FUND LOANS; Notes outstanding on 31st March, 1911, £17,728 17 10 representing 368 loans-

SCATEMENT OF SECURITIES HELD ON 31ST MARON, 1911

Local Loans Stock . Guaranteed Land Stock (Mature) Gnaranteed 22 % Stock, 1963 20,600 Consols 6276 446 II

## DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

## COUNCIL AND BOARDS, 1911.

I.—COUNCIL OF AGRICULTURE.

Arranged in Alphabetical Order according to Provinces. II.-COUNCIL OF AGRICULTURE.

Arranged according to Counties, &c.

III.—AGRICULTURAL BOARD.

IV .- BOARD OF TECHNICAL INSTRUCTION.

V .- Consultative Committee of Education.

# I .- COUNCIL OF AGRICULTURE, 1911.

[104 Members, including the President and Vice-President,] Arranged in Alphabetical Order according to Provinces,

#### LEINSTER (36 Members).

Bolger, John. Ferns, Co. Wexford, Briscoe, Algernon T. F., J.P. Curristown House, Killucan, Co.

Westmeath. Brown, Stephen J., M.A., J.P. Ard Caien, Naas, Co. Kildare. Bryan, Captain Loftus A., J.P., D.L. Upton, Gorey, Co. Wexford.

Butler, John, J.P. Minauns, Callan, Co. Kilkenny. Byrne, Thomas J., J.P. Rossmakea, Dundalk, Co. Louth.

Carew, Thomas M. Kildangan, Kinnegad, Co. Westmeath,

Casew, 1 riolins a. Manangai, из минискай, со. техниками. Corbet, William M. Killeigh, Tullamore, King's County. Delany, Thomas W. Longier, Tullamore, King's County. Booley, James G. Hoolsgrove, Rosbercon, New Ross, Co. Wexford. Dewices, Bobet, J.P. Russellstown, Mullingar, Co. Westmeath.

Everard, Colonel Sir Nugent T., Bart., H.M.L. Randlestown, Navan, Co. Meath.

Ffrench, Peter, J.P., M.P. Harpoonstown, Bridgetown, Wexford. Field, William, M.P. Blackrock, Co. Dublin. Finlay, Rev. T. A., M.A. 35 Lower Leeson Street, Dublin. FitzGerald, The Right Hon. Lord Frederick, J.P. Carton, Maynooth,

Co. Kildare. Galvin, James. Mount Avon, Rathdrum, Co. Wicklow, Hanlon, Patrick. Grangeforth, Carlow. Horan, Michael J., J.P. Mile Tree, Birr, King's County.

Kavanagh, Walter M'M., J.P., D.L. Borris House, Borris, Co. Carlow.

Kennedy, Patrick J., J.P. Rathcore House, Enfield, Co. Meath.

King, Nicholas B., J.P. Knockdillon, Knockbridge, Dundalk, Co. Louth.

M'Carthy, James, J.P. Newfoundwell, Drogheda, Co. Louth. MacMahon, James, J.P. Ballyroan, Abbeyleix, Queen's County. Massereene and Ferrard, The Right Hon. Viseount, D.S.O., J.P., Oriel Temple, Collon, Co. Louth.

Mechan, Patrick A., J.P., M.P. Maryborough, Queen's County Minch, Matthew J., J.P. Roekfield House, Athy, Co. Kildare. Mooney, Joseph, J.P. Cabra Lodge, Cabra, Co. Dublin. Morney, Joseph, J.F. Cabra Longe, Cabra, Co. Dublin.
Murphy, George F., J.P. The Grange, Dunsany, County Meath.
O'Neil, Patriel J., J.P. Kinscaly House, Malabide, Co. Dublin.
Peacocke, Charles H., J.P. Belmont, Wexford.
Reynolds, Henry. Ballinalee, Edgeworthstown, Co. Longford. Ronaldson, William R. Barn Hall, Leixlip, Co. Kildare.

Ross, James, J.P. Newport, Lenamore, Co, Longford. Wallace, Hugh, 13 D'Olier Street, Dublin,

#### ULSTER (27 Members).

Andrews, The Right Hon, Thomas, P.C., D.L. Ardara, Comber, Co.

Bailie, William. Martray Manor, Ballygawley, Co. Tyrone. Barbour, Frank. Annebrook, Mullingar, Co. Westmeath Barbour, Harold A. M., M.A. Stratheaine, Dunmurry, Co. Antrim. Barrie, Hugh T., J.P., M.P. Manor House, Coleraine, Co. London-

Campbell, Rev. E. F., M.A. Killyman Rectory, Moy, Co. Tyrone. Clark, Alexander L., J.P. Movola Lodge, Castledawson, Co.

Londonderry.

Davison, Joseph. Bellaghy, Co. Londonderry. Huston, Robert T., M.R.C.V.S. The Mall, Armagh. Jordan, Jeremiah, M.P. Enniskillen, Co. Fermanagh.

Steenan, John, J.P. Leitrim, Castledawson, Co. Londonderry. Lynch, Francis J. Ballylamesduff, Co. Cavan. W Cance, John S. F., J.P. Woodbourne, Danmurry, Co. Antrim. M Clure, Thomas A. J.P. Rose Lodge, Killylea, Co. Armagh. M'Glynn, The Rt. Rev. Monsignor, P.P., V.G. Parochial House,

Stranorlar, Co. Donegal.

M'Kenna, T. P., J.P. Mullagh, Kells. Montgomery, H. de F., J.P., D.L. Blessingbourne, Fivemiletown, Co. Tyrone. Murnaghan, George, J.P. Lisanelly House, Omagb, Co. Tyrone.

Bittragnan, George, J.F. Lasanetty House, Omago, G. Lyrone. O Clarain, Rev. Lorean, P.P. Rockeorry, Co. Monaghan. Patrick, Captain John, J.P. Dummianing, Glarryford, Co. Antrim. Porter, John Porter, John Potter, J.P., D.L. Belleisle, Lisbellaw, Co. Fermanagh. Reade, Robert H. S., J.P., D.L. Wilmont, Dummury, Co. Antrim. Slamman-Cawdord, Colonel R. G., J.P., D.L. Gradfordsburn, Co.

Sheils, Michael, J.P. Springhill Farm, Bangor, Co. Down. Smyth, William, J.P. Brookfield, Banbridge, Co. Down. Stoney, Captain T. Butler, J.P., D.L. Oakfield Park, Raphoe, Co. Donegal.

Toal, Thomas, J.P. Smithboro', Monaghan.

#### MUNSTER (24 Members).

Byrne, James, J.P. Wallstown Castle, Castletownroche, Co. Cork. Coghlan, Captain William C., J.P. Dromina, Rossduff, Co. Waterford.

Connery, Maurice, M.D., J.P. Kilfinane, Co. Limerick. Corcoran, Thomas, J.P. Honeymount, Roscrea, Co. Tipperary. Cummins, Edmond, J.P. Brookhill, Fethard, Co. Tipperary.

Duggan, Thomas. The Castle, Two-Mile-Borris, Thurles, Co.
Tipperary,
L. I. R. Cachrach, Reddie, Co. Clare

Hogan, Patrick J., J.P. Coolreagh, Bodyke, Co. Clare. Kelly, Most Rev. Denis, D.D., Lord Bishop of Ross. Bishop's House,

Skibbereen, Co. Cork.
M'Donald, William, J.P. Laharan, Minane Bridge, Carrigaline,
Co. Cork.

Mescal, Michael, J.P. Dromelihy, Cooraclare, Co. Clare. Moclair, Patrick. John Street, Cashel, Co. Tipperary.

Monteagle, The Right Hon. Lord, K.P., D.L. Mount Trenchard, Foynes, Co. Limerick.

Nolan, Mehael J., J.P. Moyvane House, Newtownsandes, Co. Kerry, Nugent, Edmond, J.P. Ballymaearbery, Clonnel, Co. Tipperary, O'Callaghan, Cornelius, J.P. Altamount House, Millstreet, Co. Cork. O'Dwyer, William White, J.P. Spring House, Ballylanders, Co. Limerick

O'Gorman, David Loo. Jane-elle, Fernavy, Co. Cork.
O'Gorman, David Loo. Jane-elle, Fernavy, Co. Cork.
O'Mons, Mormos, Stephen, Limerie
Power, Thomas, Dungarvan, Co. Waterford,
Ryan, Hugh P. Rodken, Thutles, Co. Tipperary,
Shebhy'Timothy, Market Struck, Slibbreren, Co. Cork.
Slattery, Michael, J.P. Killerk, Lisconagh, Clonmel, Co. Tipperary,
Trench, Gorne F., J.P. Abbelvlands, Andriet, Co. Kerry.

## CONNACHT (15 Members).

Clonbrock, The Right Hon. Lord, K.P., P.C., H.M.L. Clonbrock, Ahaseragh, Co. Galway.

Ahaseragh, Co. Galway. Costello, P. J., J.P. Cloghansmore House, Cloghans Hill, Tuam, Co. Galway.

Daly, Very Rev. Canon, D.D., P.P. Lavagh, Co. Sligo. Digges, Rev. Joseph G., M.A. Clooncahir, Lough Rynn R.S.O., Co. Leitrim.

Flyan, Rev. Charles, P.P., V.F. Ballmanore, Co. Leitrim. Galvin, John. Mount Talbot, Roscommon. Gore-Booth, Sir Josslyn, Bart, D.L. Lissadell, Sligo. Griffin, Thomas G. Gurten, Ballmasloe, Co. Galvay. Kennedy, Cornelius J., Dunmore, Co. Galvay. Kennedy, Cornelius J., Dunmore, Co. Galvay. J. Rosekey, Dromod, Co. Leitrim. Marchi, S. P. J. Rosekey, Dromod, Co. Leitrim. Morrin, Daniel. Foxford, Co. Mayo. Mulligan, Rev. Philip J., P.P. Carracastle, Ballaghadereen, Co.

Mayo. Nolan, Colonel John P., J.P. Ballinderry, Tuam, Co. Galway. O'Dowd, John, M.P. Bunnanadden, Co. Sligo.

## II .- COUNCIL OF AGRICULTURE, 1911.

[104 Members, including the President and Vice-President.] Arranged according to Counties, &c.

#### LEINSTER (36 Members).

Members appointed by County Councils.

\*Carlow.—Kavanagh, Walter M.M., J.P., D.L. Borris House, Borris, Co. Carlow.

Co. Carlow. Hanlon, Patrick. Grangeforth, Carlow. Dublin.—O'Neill, Patrick J., J.P. Kinsealy House, Malahide, Co.

Dublin.

Mooney, Joseph, J.P. Cabra Lodge, Cabra, Co. Dublin.

Kildare.—Brown. Stephen J. M.A. J.P. Ard Caien. Nass. Co.

Kildare.
Minch, Matthew J., J.P. Rockfield House, Athy, Co.

Kildare.

Kilkenny.—Butler, John, J.P. Minauns, Callan, Co. Kilkenny.

Doolcy, James G. Hoodsgrove, Rosbercon, New Ross, Co. Wexford. King's County.—Horan, Michael J. J.P. Mile Tree, Birr, King's

County, King's Courty, Corbet, William M. Killeigh, Tullamore, King's County
Longlord.—Reynolds, Henry. Ballinalee, Edgeworthstown, Co.

Longford.—Reynolds, Hearty. Banmatet, Eugewolthstown, Co. Longford.
Ross, James, J.P. Newport, Lenamore, Co. Longford.
Louth.—King, Nicholas B., J.P. Knockdillon, Knockbridge, Dun-

Louth.—King, Nicholas B., J.P. Knockdillon, Knockbridge, Dundalk, Co. Louth.

M'Carthy, James, J.P. Newfoundwell, Drogheda, Co. Louth.

Meath.—Everard. Colonel Sir Nusent T., Bart., H.M.L. Randles-

town, Navan, Co. Meath.
Kennedy, Patrick J., J.P. Ratheore House, Enfield,
Co. Meath.

Queen's County.—Mechan, Patrick A., J.P., M.P. Maryborough,
Queen's County.

MacMahon, James, J.P. Ballyroan, Abbeyleix, Queen's

Westmeath.—Downes, Robert, J.P. Russellstown, Mullingar, Co.
Westmeath.
Briscoc, Algernon T. F., J.P. Curristown House, Kil-

Briscoc, Algernon T. F., J.P. Curristown House, K. lucan, Co. Westmeath.

Vexical.—Peacocke Charles H. J.P. Belmont, Wexford.

Wexjord.—Peacocke, Charles H., J.P. Belmont, Wexford.
Bolger, John. Ferns, Co. Wexford.
Wicklow.—Cogan, Denis J. 115, Thomas-street, Dublin.
Gelvin, James. Mount Avon, Rathdrum, Co. Wicklow.

Members appointed by the Department.

Bryan, Captain Loftus A., J.P., D.L. Upton, Gorey, Co. Wexford Byrne, Thomas J., J.P. Rossnakes, Dundalk, Co. Louth. Carew, Thomas M. Kildangan, Kinnegad, Co. Westmeath. Delany, Thomas W. Longford. Ffrench, Peter, J.P., M.P. Happonstown, Bridgetown, Wexford.

#### LEINSTER-Continued.

Members appointed by the Department, -Continued.

Field, William, M.P. Blackrock, Co. Dublin.

Finlay, Rev. T. A., M.A. 35 Lower-Leeson Street, Dublin. FitzGerald, The Rt. Hon. Lord Frederick, J.P. Carton, Maynooth, Co. Kildare.

Massercene and Ferrard, The Rt. Hon. Viscount, D.S.O., J.P. Oricl Temple, Collon, Co. Louth.

Murphy, George F., J.P. The Grange, Dunsany, Co. Mcath. Ronaldson, William R. Barn Hall, Leixlip, Co. Kildare. Wallace, Hugh. 13 D'Olier Street, Dublin.

#### ULSTER (27 Members). Members appointed by County Councils.

Antrim.-Barbour, Harold A. M., M.A. Strathearne, Danmurry, Co Antrim.

Patrick, Captain John, J.P. Dunminning, Glarryford, Co. Antrim. Armagh.-Huston, Robert T., M.R.C.V.S. The Mall, Armagh.

M'Clure, Thomas A., J.P. Rose Lodge, Killylea, Co. Atmagh.

Cavan.—M'Kenna, T. P., J.P. Mullagh, Kells. Lyach, Francis J. Ballyjamesduff, Co. Cavan.

Donegal .- Stoney, Capt. T. Butler, J.P., D.L. Oakfield Park, Raphoc, Co. Donegal.

M'Glynn, The Rt. Rev. Monsignor, P.P., V.G. Parochial House, Stranorlar, Co. Donegal.

Down.—Andrews, Rt. Hon. Thos., P.C., D.L. Ardara, Comber, Co. Down. Smyth, William, J.P. Brookfield, Banbridge, Co. Down.

Fermanagh,-Porter, John Porter, J.P., D.L. Belleisle, Lisbellaw, Co. Fermanagh. Jordan, Jeremiah, M.P. Enniskillen, Co. Fermanagh,

Londonderry.—Barrie, Hugh T., J.P., M.P. Manor House, Colcraine, Co. Londonderry.

Keenan, John, J.P. Leitrim, Castledawson, Co. Londonderry. Monaghan. - O Ciarain, Rev. Lorean, P.P. Rockeorry, Co. Monaghan-

Toal, Thomas, J.P. Smithboro', Monaghan. Turone.-Montgomery, H. de F., J. P., D.L. Blessingbourne, Five-

miletown, Co. Tyrone, Murnaghan, George, J.P. Lisanelly House, Omegh, Co.

Tyrone. Members appointed by the Department,

Bailie, William. Martray Manor, Ballygawley, Co. Tyrone. Barbour, Frank. Annebrook, Mullingar, Co. Westmeath. Campbell, Rev. E. F., M.A. Killyman Rectory, Moy, Co. Tyrone. Clark, Alexander L., J.P. Movola Lodge, Castledawson, Co. Londonderry.

Davison, Joseph. Bellaghy, Co. Londonderry.
M'Cance, John S. F., J.P. Woodbourne, Dunmurry, Co. Antrim.
Reade, Robert H. S., J.P., D.L. Wilmont, Dunmurry, Co. Antrim. Sharman-Crawford, Col. R. G. J.P., D.L., Crawfordsburn, Co. Down. Sheils, Michael, J.P. Springhill Farm, Bangor, Co. Down.

## MUNSTER (24 Members).

#### Members appointed by County Councils.

Clare.—Hogan, Patrick J., J.P. Coolreagh, Bodyke, Co. Clare.
Mescal, Michael, J.P. Dromelihy, Cooraclare, Co. Clare.
Cork.—O'Callaghan, Cornelius, J.P. Altamount House, Millstreet, E.

M'Donald, William, J.P. Laharan, Minane Bridge, Carrigaline, Co. Cork.

O'Gorman, David Leo, Janeville, Fermoy, Co. Cork. Sheehy, Timothy, Market Street, Skibbereen, Co. Cork. Kerry.—O'Gorman, George. Kilkneedan, Ballyhar, Co. Kerry.

Nolan, Michael J., J.P. Moyvane House, Newtownsandes, Co. Kerry.

Lamerick.—Connery, Maurice, M.D., J.P. Kilfinane, Co. Limerick.

O'Dwycr William White, J.P. Spring House, Ballylanders, Co. Limerick.

Tipperary, N.R.—Corcoran, Thomas, J.P. Honeymount, Roserea,

typerary, N.K.—Coreoran, Thomas, J.P. Honeymount, Roscrea, Co. Tipperary. Duggan, Thomas. The Castle, Two-Mile-Borris, Thurles,

Co. Tipperary, Tipperary, S.R.—Slattery, Michael, J.P. Killerk, Lisronagh, Clonmel, Co. Tipperary.

Moclair, Patrick. John Street, Cashel, Co. Tipperary.

Waterford.—Power, Thomas. Dungarvan, Co. Waterford.

Nugent, Edmond, J.P. Ballymacarbery, Cloninel, Co.
Tipperary.

Members appointed by the Department.

Byrne, James, J.P. Wallstown Castle, Castletownroche, Co. Cork. Coghlan, Captain Wm. C., J.P. Dromina, Rossduff, Co. Waterford. Cammins, Edmond, J.P. Brookhill, Fethard, Co. Tipperary. Kelly, Most Rev. Denis, D.D., Lord Bishop of Ross. Bishop's House, Skibbereen, Co. Cork.

Monteagle, The Right Hon. Lord, K.P., D.L. Mount Trenchard, Foynes, Co. Limerick.

O'Mara, Alderman Stephen. Limerick. Ryan, Hugh P. Roskeen, Thurles, Co. Tipperary. Trench, George F., J.P. Abbeylands, Ardfert, Co. Kerry.

#### CONNACHT (15 Members).

Members appointed by County Connellis,

Galway.—Kennedy, Cornellius J. Dumnore, Co., Galway.

Griffin, Thomas G. Gurteen, Ballinastoe, Co., Galway.

Leitvin.—Manly, Rev. P. J., C. C. Carriels-on-Shamnon, Co. Leitrim.

Flynn, Rev. Charles, P.P., V.F. Ballinamore, Co. Leitrim.

Mayo.—Costello, P. J., J.P. (Doghanamore House, Cloghans Hill,

Tuam, Co. Galway.
Morrin, Daniel. Foxford, Co. Mayo.

Roscommon.—Galvin, John. Mount Talbot, Roscommon.

MacGuire, James P. Rooskey, Dromod, Co. Leitrim.

Sligo.—O'Dowd, John, M.P. Bunnanadden, Co. Sligo, Daly, Very Rev. Canon, D.D., P.P. Lavagh, Co. Sligo.

# CONNACHT—Continued. Members appointed by the Department.

Clonbrock, The Right Hon. Lord, K.P., P.C., H.M.L. Clonbrock, Ahaseragh, Co. Galway. Digges, Rev. Joseph G., M.A. Clooncahir, Lough Rynn R.S.O.,

Co. Leitrim.
Gore-Booth, Sir Josslyn, Bart., D.L. Lissadell, Sligo.

Mulligan, Rev. Philip J., P.P. Carracastle, Ballaghadereen, Co. Mayo. Nolan, Colonel John P., J.P. Ballinderry, Tuam, Co. Galway.

# III.—AGRICULTURAL BOARD. (14 Members.\*)

Daly, Very Rev. Canon, D.D., P.P. Lavagh, Co. Sligo. Appointed by Connacht Provincial Committee. Downes, Robert, J.P. Russellstown, Mullingar. Appointed by Leinster Provincial Committee.

Evrand, Col. Sir. Nuşent T., Bact., H.M.L. Randlestown, Navan, Co. Seath, Appointed by the Department. Government of the State of the S

Tuam. St. Jarlath's, Tuam, Co. Galway. Apparated by Comnacht Provincial Committee.
Kelly, Most Rev. Denis, D.D., Lord Bishop of Ross. Bishop's House, Skibberseen, Co. Cork. Appointed by Munster Provincial Com-

Skibbereen, Co. Cork. Appointed by Munster Provincial Committee.

McCance, John S. F., J.P. Woodbourne, Dunmurry, Co. Antrim.

Appointed by Ulster Provincial Committee: Mr Ponald, William, J.P. Laharan, Minan Bridge, Carrigaline, Co. Cork. Appointed by Munster Provincial Committee. Monteagle, The Right Hon. Lord, K.P., D.L. Mount Trenchard, Foynes, Co. Limerick. Appointed by the Department. Montgomery, H. de F., D.L. Blessingbourne, Fivemilletown, Co.

Mortgonery, H. de P., D.L. Bessingbournetheutestown, O. Mortgonery, H. de P., D.L. Bessingbournetheutestown, O. Mortgonery, H. de P., D.L. Bessingbournetheutestown, O. Murnajhan, George, J.P. Lisanelly House, Omagh, Co. Tyrone. Appointed by the Department.
O'Neill, Patrick J., J.P. Kinsealy House, Malahide, Co. Dublin. Appointed by Leinster Previoused Committee

# IV.—BOARD OF TECHNICAL INSTRUCTION. (23 Members, \*)

Barbour, Frank. Annebrook, Mullingar, Co. Westmeath. Appointed by Uister Provincial Committee.
Clancy, Most Rev. John, D.D., Lord Bishop of Elphin. St. Mary's,
Sligo. Appointed by Connecht Provincial Committee.
Crozier, James, J.P., V.S. 26 Montpelier Hill, Dublin. Appointed

by Dublin County Borough Council.

Dickson, Alexander. 15 Parliament Street, Dublin. Appointed by

Dublin County Borough Council.

\* By section 24 (2) of the Agriculture and Technical Instruction (Ireland) Act 1859. the President and Vice-President of the Department are ex-ogicio Members of the Board.

## BOARD OF TECHNICAL INSTRUCTION-Continued.

Donnellan, Thomas. Thomond Gate, Limerick. Appointed by Limerick County Borough Council. Dunn, Christopher J., J.P. 1 Mount Verdon Terrace, Wellington

Road, Cork. Appointed by the Department. Evans, Rev. Henry, D.D., M.R.I.A., F.I.H. St. Helen's, Blackrock, Co. Dublin. Appointed by Commissioners of National Education. Finlay, Rev. T. A., M.A. 35 Lower Lecson Street, Dublin. Ap-

pointed by Leinster Provincial Committee. Glynn, Joseph A., B.A. Beech House, Tuam, Co. Galwav.

Appointed by the Department.

Good, John. The Moorings, Merrion Road, Dublin. Appointed by Joint Committee of Councils of the Co. Dublin Urban Districts. Henderson, Sir James, A.M., D.L. Oakley House, Windsor Park, Belfast. Appointed by the Department.

Johnston, Sir John Barr, J.P. Londonderry. Appointed by Londonderry County Borough Council.

Macartney, William, J.P. 33 Cliftonville Road, Belfast. Appointed by Belfast County Borough Council. McClelland, John A., M.A., D.Sc., F.R.S. Rostrevor, Orwell Road,

Rathgar, Co. Dublin. Appointed by the Department.

Mercier, Alderman Samuel T., J.P. 2 Mount Clifton, Cliftonville Road, Belfast. Appointed by Belfast County Borough Council.

O Ceallaigh, Seaghan T. 8 Belvedere Avenue, Dublin. Appointed bu Dublin County Borough Council.

Power, Thomas. Dungarvan, Co. Waterford. Appointed by Munster Provincial Committee. Sheehan, Most Rev. Richard A., D.D., Lord Bishop of Waterford and Lismore. Bishop's House, Waterford. Appointed by Water-

ford County Borough Council. Sisk, Richard. Evergreen Villas, Cork. Appointed by Cork County Borough Council.

Starkic, William J. M., M.A., Litt.D. Tyrone House, Marlborough Street, Dublin. Appointed by Intermediate Education Board. Taylor, Alexander. 131 Donegall Street, Belfast. Appointed by Belfast County Borough Council.

### V .- CONSULTATIVE COMMITTEE OF EDUCATION.

(5 Members.)

The Right Hon. T. W. Russell, P.C., M.P., Vice-President of the Department. Department of Agriculture and Technical Instruction, Dublin. Ex-officio.

Starkie, William J. M., M.A., Litt.D. Tyrone House, Marlborough St., Dublin. Appointed by Commissioners of National Education. Finlay, Rev. T. A., M.A. 35 Lower Leeson Street, Dublin. Appointed by Intermediate Education Board.

M'Clelland, John A., M.A., D.Sc., F.R.S. Rostrevor, Orwell Road. Rathgar, Co. Dublin. Appointed by Board of Technical Instruction.

Gill, T. P. Department of Agriculture and Technical Instruction, Dublin. Appointed by Agricultural Board.

## AGRICULTURE

Table showing by Counties the Agricultural Schemes adopted tember, 1911; the amount allocated from the joint fund allocation chargeable to local contributions and to the

County.	Itiner- ant In- struction in Agri- culture.	Winter Agricul- tural Classes.	Poultry,	Butter- making.	Horti- culture and Bec- keeping.	Cottage and Parm Prizes.	
	£	£	£	£	£	1 £	
Antrim,	. 580	70	400	- '	140	-	
Armagh,	. 396	60	249	-	401	****	
Carlow, .	. 290	50	161	72	164	-	
Cavan,	. 340	150	295	105	300	194	
Clare,	. 530	60	310	250	200	275	
Cork,	. (a)1,640	426	704	246	654	200	
Donegal,	. 335.	_	519	140	(b) 466	600	
Down, .	. (c) 700	250	342	92	273	320	
Dublin, .	. 370	-		_	151	50	
Fermanagh, .	. 310	30	322	_	280	100	
Galway, .	: 590	120	580	180	250	405	
Kerry,	. 350	100	400	170	205	135	
Kildare, .	. 320	_	206	102	(e) 575	328	
Kilkenny.	. (f) 390	315	246	124	284	142	
King's,	. 306	40	*258		190	60	
Leitrim.	. 300	40-	. 164	125	155	. 132	
Limerick:	· (g) 953	135	318	100	198	162	
Londonderry,	. 310	50	278	170	. 197	200	
Longford, .	. 280	20	*256		200	70	
Louth, .	. 385	50	320	199	212	30	
Mayo,	. 590	100	590	140	(h) 370	310	
Meath.	. (7) 665	180	354	154	237	550	
Monaghan,	. 400		309	100	228	140	
Queen's, .	. 295	50	*263	_	167	150	
Roscommon,	. 330	60	450	170	210	2371	
Sligo,	. 305	60	237		220	216	
Tipperary (N.R.)		200	270	93	245	1.50	
Tipperary (S.R.)	: (I) 465	100	*302.	45	209	248	
Tyrone, .	. 615	180	261	155	250	150	
Waterford,	. 320 -	50	187	126	188	45	
Westmeath, .	· (n) 355	110	375	160	185	2631	
Wexford, .	· (o)1,080	120	343	143	304	300	
Wieklow, . :	. 352		274	. 141	176	100	
Totals,	. 15,927	3,176	10,543	3.402	8,484	6,263	

### \* Includes Butter-making.

- (u) Includes £550 for Prizes under Tillage Scheme.
  (az) Includes £15 Grant to Village Hall.
- (b) Includes £267 for Shelter Belts.
- (c) Includes £15 Grant to Farmers' Institutes and £350 Scholarships to Farm School.
- to Farm School.

  (d) Includes £250 Grant from "Henry Trust Fund."
  - (e) Includes £174 for School Gardens, £50 for Teachers' Class and £100 for Shelter Belts.
    (f) Includes £00 Scholarship at Glasnevin.
    - (g) Includes £253 Tillage Demonstration Scheme, £50 of which is a contribution from Limerick Endowment Fund.

# APPENDICES :--

by the several County Committees for the year ended 30th Sepfor the purpose of each Scheme and the proportions of the total Department's Grant respectively.

Live Stock.			General Admin- istration, includ- ing Secretaries' salaries and expense		Contri- butions from Rates.	Contri- bution from Depart- ment.	Rates raised.	
£	£	£	£	£	£	£	£	
1.160	275	_	405	3,030	1.390	1.640	(q)1,859	
655	5	100	380	2,246	953	1,293	(9)1,110	
233	100	_	170	1,240	400	840	650	
662	194	-	280	2,520	971	1.549	1.106	
750	210	-	275	2,860	1.014	1.846	(a) 964	
1.575	650	30	(az) 535	6,660	1.785	4,875	(r)2.135	
842	300	200	361	3,763	1.592	2,171	1.280	
1,385	385	200	495	(d)4,442	1,784	(d)2.658	(q)2,100	
695	175	-	205	1,646	515	1.131	(r) 812	
545	155	25	195	1.962	674	1,288	950	
980	250	_	270	3,625	1,489	2,136	1.800	
950	150	. —	260	2,720	774	1,946	1,162	
485	200	_	355	2,571	1.054	1,517	1,400	
735	260	_	330	2,826	1.315	1.511	1,435	
425	90	_	294	1,663	651	1.012	930	
380	60	_	176	1,532	398	1.134	. 578	
865	200	-	307	3,138	1.135	2.003	1,900	
720	205	100	370	2,600	1,110	1.490	1,229	
295	122	-	170	1,413	560	853	592	
346	124	_	210	1,876	985	891	800	
690	235	_	(4) 485	3,510	1,293	2,217	1.213	
790	250	-	324	3,504	1,680	1.824	(a)1.680	
568	168	80	255	2,248	921	1.327	1.060	
465	150	-	235	1,775	650	1,125	1.070	
576	160	_	274	2,4671	9071	1,560	1.223	
420	120	-	230	1,808	580	1,228	800	
585	150	_	265	2,438	1,048	1,390	1,140	
878	240	_	307	2,794	1,468	1,326	1.540	
m)1,120	300	100	495	3,626	1,460	2,166	1,710	
450	100	-	250	1,716	716	1,000	1,080	
636	200	-	215	2,4991	1,116	1,3831	1,314	
805	360	-	(p) 355	3,810	1,960	1,850	1,480	
571	127	_	281	2,022	810	1,212	1,063	
23,237	6,670	835	10,014	88,551	35,1581	53,3921	_	

<sup>(</sup>h) Includes £40 for Shelter Belts. . . .

Includes £135 for Spraying Machines.
 Includes £300 for Prizes under Tillsen

<sup>(</sup>i) Includes £300 for Prizes under Tillage Farm Scheme.
(k) Includes £120 Scholarship for Boys and Girls.
(l) Includes £40 Scholarship at Dundrum Convent.

<sup>(</sup>m) Includes £30 entirely from Department's Funds.

<sup>(</sup>n) Includes £45 for Instruction in Bacon Curing. (c) Includes £50 for Veterinary Lectures, £400 for Veterinary Dispensaries, and £60 Scholarships at Clonakilty.

<sup>(</sup>p) Includes £50 Grants to Village Halls. (q) Rate 3d. in the £ 1 In all other cases, the rate is 1d. in the £.

RETURN showing the Number of Instructors, &c., employed in each County in connection with Agricultural Schemes during the year 1910-1911.

County:	Agricul- ture.	Teachers of Agricul- tural Classes.	Poultry- keeping only.	Poultry- keeping and Butter- making.	Butter- making	Horti- culture only.	Horti- culture and Bee- keeping.	Bee- keepin only.
Antrin, Armach, Caclow, Cachow, Cavan, Caclow, Cone, Donegal, Down, Donegal, Down, Galway, Keryen, Keryen, Killenny, King's, Lestrain, Killenny, King's, Lestrain, Monachan, Gasen ho, Gasen ho, Typeray (N R.) Typeray (N R.) Typeray (N R.) Waterford, Waterford, Waterford,	1 1 1 1 1 1	(a) (a) 1 (a) 2 (a) (a) (a) (a) (a) 1 (a) (a) 1 (a)	1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		.1
	40	5	18	17	16	4	32	3

<sup>(</sup>a) The Instructors in Agriculture conducted classes in these Counties.

One of these Instructors was employed in Co. Tyrone for portion of year only.

FORM A. 133 (a.). 1910.

### DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

### BOYAL COLLEGE OF SCIENCE, DUBLIN.

Session 1910-11.

SCHOLARSHIPS IN AGRICULTURE, HORTICULTURE, FORESTRY AND CREAMERY MANAGEMENT.

A limited number of scholarships will be offered in 1910 for competition among young men in Ireland who desire to acquire a thorough knowledge of technical Agriculture, and, in addition, one or more scholarships will be provided for students who intend to specialise in either Horticulture, Forestry, or Creamery Management. Each scholarship includes-(1) free admission to the first year's course of instruction in the College, (2) one third-class railway fare to Dublin at the beginning of the session, and one third-class fare from Dublin at the end of the session, and (3) either of the following at the option of the Department-(g) a maintenance allowance of one guinea per week while in attendance at the Royal College of Science or elsewhere, as the Department may decide; or (b) free board and residence at one of the Department's institutions; in the latter case a small grant will be made to each student towards the cost of books and apparatus. A scholarship is tenable for one year, but selected candidates must undergo a probationary course of one term of about three months. If satisfactory

go a promanding votures of the electric about the information in a second, for a third, and, in certain circumstances, even for a fourth year, to enable the student to complete his course.

The Denartment do not undertake to employ, or find employment for,

Students at the close of the period of training.

Holders of these scholarships will be subject to the regulations made

from time to time at the Royal College of Science, and will be required to devote their whole time to the course of study prescribed for them by the Department.

Candidates, who should be between 18 and 30 years of age on the 1st

September, 1910, must make application on a form, which may be obtained from the Registrar, Royal College of Science, Dublin, after the 1st February, 1910, and which should be returned not later than the 3rd August, 1910. Candidates must have been born in Ireland or have been resident in

Cannates must have been born in related for have been reasons in related for three years immediately prior to the 1st June, 1910. The examination will take place in Dublin, on the 17th, 18th, and 19th August, 1910. No expenses in connexion with attendance at this ex-

Candidates will be tested in the following:-

amination will be allowed.

A.—English.

Composition—to be tested by an essay.
 Grammar—Etymology, and the principles of Syntax.
 Literature—the following works:—(a) Dickens, "A Tale of Two

Cities"; (b) Shakespeare, "Julius Cresar."

B.—One of the following:—

LATIN;

IRISH; FRENCH; GERMAN.

15

In these languages the papers will comprise-

(1) Passages for translation from the following tests:— Latin—Cessar, "De Bello Gallico" (Book V.). Irish,—miceal to mixtle—"octory mac it in equan." French—Enault, "Le chien du Capitaine." German—Hauff, "Das Wirthshaus im Spessart."

(2) Easy passages for translation into English from other texts.
(3) Questions in Grammar—Accidence and the principal rules of Syntax.

Syntax.
(4) Short sentences for translation from English.

#### C.—MATRIMATICS.

 Arithmetic—including Mensuration of simple plane figures and rectangular solids.

(2. Algebra—to quadratic equations inclusive.

(2) Algebra—c quadratic equations inclusive.
(3) Plane Geometry—to be tested partly by questions requiring formal proofs of propositions from Euclid I-III., and partly by practical problems to be solved by compasses and scale of equal parts.

D.—Practical experience of one of the following :-

AGRICULTURE ; HORTICULTURE ; FORESTRY :

DAIRYING AND CREAMERY MANAGEMENT.

Each applicant must have had substantial experience of practical work in connection with farming, gardening, the management of woodlands, or dairying and creamery management. The examination may be written, oral, and practical. The subjects will include all the ordinary work of farms, gardens, woods, or dairies, as practiced in Ireland.

N.B.—On no account will a scholarship be awarded to a candidate who jails to attain a high standard in the subject he selects for this portion of the examination; while excellence in that subject will be taken into consideration in case of deficiency in one or more of the others.

### E.—ABILITY TO IMPART INSTRUCTION :-

Gauged by the style of the answers in both the written and the oral examinations.

Candidates who are qualified for scholarships by their examination on the foregoing subjects will be required to submit to an examination by a medical office appointed by the Department. A scholarship will not be awarded in any case where the candidate is certified to be physically unfit

to undertake the prescribed course of studies.

Last date for receiving applications, 3rd August, 1910.

October, 1909.

SCHOLARSHIPS IN AGRICULTURE, HORTICULTURE, FORESTRY, AND CREAMERY MANAGEMENT.

### 1910-11.

At the annual examination held on the 17th, 18th, and 19th August, 1910, for Scholarships in Agriculture, Horticulture, Forestry, and Creamery Management, tenable at the Royal College of Science, Dublin, seventy-two candidates presented themselves.

Scholarships in Agriculture were awarded to the following ten candidates :-

Best, Frederick W. G., The Cairn, Aghalee, Antrim. Blake, Thomas, Albert Agricultural College, Glasnevin-Dales, Hugh, Drumra House, Boardmills, Lisburn. Fannon, Robert J., Albert Agricultural College, Glasnevin. Healy, Thomas, Ballinaboy, Ballinhassig, Co. Cork. Hennessy, Matthew, Albert Agricultural College, Glasnevin. Kennedy, Edward J., Bantiss, Cloughjordan, Co. Tipperary, Lynch, Richard, West Street, Tallow, Co. Waterford.

O'Callaghan, Denis, Albert Agricultural College, Glasnevin. Slattery, Patrick J., Albert Agricultural College, Glasnevin. A Scholarship in Forestry was awarded to-O'Beirne, Michael, Forestry Station, Avondale, Co. Wicklow.

FORM A. 180 (a.).

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

No Scholarships were awarded in Horticulture or Creamery Management.

THE ALBERT AGRICULTURAL COLLEGE, GLASNEVIN, DUBLIN.

### Session, 1910-11.

The Albert Agricultural College is situated on the north side of Dublin in a healthy situation about 170 ft. above the sea level. It is easily reached by tram to the Glasnevin terminus, from which it is distant less than a mile. The College consists of a residence for between fifty and sixty students, together with a farm, orehard, and gardens, all covering an area of about 180 acres.

The College provides two distinct courses of instruction—one for farmers, the other for gardeners. The former or Agricultural Course occupies in the Department's scheme of agricultural education a position intermediate between the instruction given at the Agricultural Stations and that provided by the agricultural faculty of the Royal College of Science, Dublin. The Horticultural Course is intended for selected pupils who are seeking to qualify for the post of Instructor in Horticulture. (For particulars relative to the Horticultural Course see separate leaflet, A. 153a.)

### AGRICULTURAL COURSE.

This course is intended for young men who desire a technical and practical knowledge of agriculture, to fit them for entrance to the Royal College of Science, Dublin, for becoming farmers, or for engaging in any other occupation-such as creamery management-which requires technical training in the sciences underlying agriculture. It includes instruction in agriculture in the classroom, farmyard, and fields, supplemented by lessons in dairying, horticulture, poultry management, bee-keeping, and veterinary hygiene. The elements of physics, chemistry, botany, zoology, and entomology are taught so far as is necessary to the proper understanding of the principles underlying the most approved farmyard practice.

Instruction is also given in book-keeping, surveying, and wood-work, while literature, mathematics, and drawing receive such attention as is found requisite.

Every encouragement is given to the pursuit of athletics and to the development of social intercourse among the students. The College discussion society meets frequently throughout the session. The papers read before it relate to topics of current interest to the farming community.

The library is supplied with standard works on agriculture, and copies of the best farming periodicals are procured regularly for the students' use. THE STAFF.—The staff consists of Principal, House Masters, Agriculturist, and teachers of chemistry, botany, zoology, veterinary hygiene, horticulture dairying, poultry keeping, bee-keeping, and woodwork. A competent Drill Instructor attends twice weekly to see to the physical training of the students.

The Clergy of the different denominations also visit the College weekly to give religious instruction. The domestic comfort and bodily health of

the students are under the care of an experienced Matron. THE SESSION.—The course of study extends over at least one session. The session for the year 1910-11 will open on Tuesday, the 11th October, 1910, and end on Friday, the 11th August, 1911. There will be two intervals, each of about a fortnight, during which students will return to

their homes-one at Christmas and the other at Easter. COLLEGE DIPLOMA.—The College diploma is awarded partly on the result of the sessional examinations and partly on the work done throughout the year. It is of two classes, the first being reserved for those students who add to an intelligent grasp of scientific principles a high standard of skill

in practical farm work.

Prizes are given by the Department for progress made, for work done and for services cheerfully rendered to the common weal. These prizes are awarded after consultation with the Principal, and not merely on marks

obtained at the examination.

CONDITIONS OF ADMISSION.—Admission to the College is conditional on passing the entrance examination and furnishing evidence of good health and character. Only resident students who are prepared to stay the whole session and to take the full curriculum, are admitted. They must be not less than 17 nor more than 30 years of age on 1st September, 1910.

The entrance examination will be held in the first week in September. 1910, at four centres situated one in each province. Each applicant for admission will be notified in due course as to the centre at which he will be required to present himself. No expenses will be allowed in respect

of attendance. The subjects included in the examination will be as follows:--

(1.) English, including dictation and composition. (2.) Arithmetic, including calculations requiring a thorough knowledge of weights and measures, decimal and vulgar fractions, per-

centages, and interest-

(3.) Mathematics.—The elements of Mensuration—lengths, areas, volumes; and algebra to simple equations. (4.) Agriculture.—The questions on this subject are framed with a view

to testing knowledge acquired by practical experience of farm work. No text-book is prescribed or recommended. The examination may be oral as well as written.

FEES.—The fees for tuition, hoard, residence, laundry, and ordinary

medical attendance during the entire session are :-For students whose parents or guardians derive their means of

living mainly from farming in Ireland, . . . For students other than the foregoing,. The fees are psyable to the Principal in two instalments, viz., one of

£10 (or £30) on entrance and the balance on 1st February. In addition to the instalment of the fee payable on entrance each student must deposit with the Principal a sum of £3 to cover the cost of repairs to clothing, and of hooks and stationery. The unexpended balance, if any, of this deposit, will be returned at the close of the session.

### OUTFIT.

Students are required to provide themselves with a proper outfit, particulars of which will be supplied to candidates successful at the entrance examination.

APPLICATION FOR ADMISSION.

Application must be made on the prescribed form, to be obtained from—
THE OPPLATMENT OF AGRICULTURE AND
TRESPRICAL INSTRUCTION FOR IRELAND,

UPPER MERRION STREET, DUBLIN.

DUBLIN.

Applications will be dealt with in the order of their receipt in the Department's Offices. They should be forwarded not later than the 15th August, 1910.

FORM A. 153 (a.).

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

INSTRUCTION IN FRUIT-GROWING AND GENERAL

GARDENING.
HORTICULTURAL SCHOOL,

ALBERT AGRICULTURAL COLLEGE, GLASNEVIN, DUBLIN.

SERSON, 1010-11.

The course provided at this School is suited for men who have already lad experience in fruit-growing and general granding such as one behatind by worther the provided work in the gardens, class-com instruction is given to the students to enable them to understand the schemible principles

underlying horticulture.

Applicants for admission to the 1910-11 session must be at least twenty Applicants for admission to the 1910-11 session must be at least twenty Applicants for ago on the 1st October, 1910, in good health and of strong constitution, and should have received a fair general education. They will be required to produce evidence that they have been employed regularly at

garden work.

Students will be admitted on probation as the result of an examination which will be held at the Albert Agricultural College on the 26th August,

which will be seen at the American and a short letter.

(1.) English—to be tested by dictation and a short letter.

(2.) Arithmetic—the first four rules, simple and compound; a know-ledge of weights and measures; and percentages.

(3.) Practical Fruit-growing and Gardening.
A high standard will not be expected in English or Arithmetic. The

examination in practical fruit-growing and gardening will cover the whole range of these subjects.

No expenses will be allowed to candidates in connection with their

attendance at this examination.
Successful candidates will be required to enter on their duties on the 11th October, 1910.

11th October, 1910.

The season will close on the 30th September, 1911. Students may be retained at the School beyond that date, if, in the opinion of the Department, they would profit by an extension of the course.

Students are provided with furnished lodging, including coal and light, and receive an allowance of 14s per week during their first session and of 16s, per week during their second session. They are required to find their own board.

Students of the Horticultural School are subject to the conditions under

Students of the Horticultural School are subject to the conditions under which the gardeners at the College are employed. The Department do not undertake to employ or to procure employment are sent to County Committees of Agriculture with an intimation that they are eligible for appointment by such Committees, to instructorships under the Department's Scheme of Instruction in Horticulture and Bee-keeping. Several men who have passed through the School are now employed by County Committees of Agriculture.

Application to attend the examination must be made on the prescribed form, to be obtained from-

THE DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IBELAND, UPPER MERRION STREET, DUBLIN. Last date for making application-12th August, 1910.

FORM A. 176 (a.).

### DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

### FARM APPRENTICESHIPS.

AGRICULTURAL STATION, ATHENRY, COUNTY GALWAY.

Young men who intend to become farmers are admitted to the Station for one year, as apprentices, for a course of practical training in several branches of farming,

Apprentices are admitted without payment of any fee. They are required to take part in all the operations of the fields and of the farmyard. They must perform diligently all work assigned to them by the Farm Manager or his Foreman. In winter, class-room instruction is provided in the evenings. This instruction is not intended as a preparation for any examination. It is of such a character as to continue the general education of the apprentices and be useful to them in their future career as farmers.

Applicants for apprenticeships must be not less than seventeen years of age on the date of making application, and each must give an undertaking that it is his intention to become a farmer in Ireland. He must also provide, in his application form, evidence of a sure prospect of obtaining a farm of his own, or bona-fide occupation on a farm. Preference will be given to applicants from the province of Connaught. It will also be a recommendation if the applicant has attended a course of instruction held under the Department's Scheme of Winter Agricultural Classes or if he produces a certificate from an Itinerent Instructor in Agriculture that he has taken advantage of the Instructor's lectures and demonstrations and

has shown a desire to improve his knowledge of tillage farming. Applications for apprenticeships may be made at any period of the year. Apprentices will be admitted in the order of the receipt of their applications in the Department's offices. The Department do not guarantee admission to any applicant. An apprentice will not be retained at the station if he is found unable to perform a fair day's work or to be otherwise unsuitable. On completion of twelve months at the Station, apprentices whose work has been done with care and diligence and to the satisfaction of the Farm

Manager will receive small payments proportioned to the value of their work. In no case will such payment exceed £10. OUTFIT. Apprentices will be required to provide themselves with a proper outfit, particulars of which will be supplied to applicants on being notified of their

admission. A sum of £1 must be deposited with the Superintendent on entrance to cover the cost of repairs to clothes, the purchase of books, stationery, &c. The unexpended balance, if any, of this deposit will be refunded on the termination of the apprenticeship.

#### APPLICATIONS FOR ADMISSION.

Application for admission must be made on the prescribed form to be obtained from—
THE DIPARTMENT OF AGRICULTURE AND

THE DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND, Upper Merrion Street, Dublin.

FORM A. 176 (b.)

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

AGRICULTURAL EDUCATION FOR YOUNG MEN.
SESSION 1919-11.

FARM APPRENTICESHIPS.

AGRICULTURAL STATION, BALLYHAISE, CO. CAVAN.

Young men who intend to follow the farming profession and who desire to acquire a practical knowledge of its several branches are admitted

to the Station as apprentices, the state of the less than avonuteen years Applicants for apprenticeships must not be less than avonuteen years of age on the lat October, lift, and not must give an understhing that of the properties of the propert

ledge of tillage farming.

The apprentices are required to reside in Ballyhaise House attached to
the Station, where they are under the immediate supervision of the Prin-

chal. They must take part as directed in all the work of the farm.
The Session will enomense on the 11th October, 1919, and close on the 11th August, 1911. Will be divided into two terms, via. the Winter-Term, from the open of the August, 1911. It will be divided into two terms, via. the Winter-Term, from the open of the August, 1911. It was the session of the will be an interval at Christians of about a formight, during which the apprentions may return to their hences. Appendixes were averaged to large the spring and summer raw part of the appearance of the spring and summer raw part of the spring and summer raw on the spring and summer are the spring and summer raw to the spring and summer are the spring and spring and spring

Summer 1 cm. to fill velocities that the control of the control of

bygiene and woodwork.

The Whiter Term will be occupied principally with classroom instruction in agricultural and general subjects. The following subjects will be included in the agricultural course:—

Solts, tillages, manures (natural and artificial), seeds, grasses, weeds,

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treatment of pastures, eropping, management of live stock (including winter dsirying), valuation of manures and feeding stuffs, elementary chain surveying, and elementary science, explanatory of the principles underlying ordinary farm practice. The Summer Term will be given almost exclusively to practical training

I he summer term wit be given almost excusavely to practical training in the outdoor work of the farm. Apprentices who are found unable to do a fair day's work will not be retained at the Station.

Admission as an apprentice is conditional on passing the entrance examination and producing certificates of good health and character. Applicants who have been pupils at Winter Agricultural Classes will be exempted from the entrance examination provided their attendance

# and progress at the Agricultural classes have been satisfactory. Entrance Examination.

Particulars as to the date of this examination and the place at which it will be held will be notified to each applicant.

The following subjects are included in the examination:

Arithmetic—Simple calculations requiring a knowledge of weights and measures, vulgar and decimal fractions, and percentages.

English—Dictation, Grammar and Composition.

The examination will be of such a nature as should present little difficulty to a young man who has passed the fifth standard at a National

cuity to a young man who has passed the fifth standard at a National school.

No candidate will be admitted as an apprentice whose general education is too backward to admit of his taking advantage of the classroom

instruction, or who is, in the opinion of the Department, unsuitable in any other respect for an apprenticeship.

No expenses will be allowed to candidates in connection with their attendance at this examination.

#### FEES.

 For apprentices whose parents or guardians derive their means of living mainly from farming in Ireland the inclusive fees for tuition, board, residence, laundry and ordinary medical attendance are proportional to the aggregate tenement valuation of their holdings, as follows:—

W	Se	Per ssion
Where the aggregate valuation does not exceed £20.		£3
Exceeds £20 but does not exceed £40,		26
Exceeds £40 but does not exceed £100,		£10
Exceeds £100,		£15
or apprentices not included in the foregoing classes		£20

These fees are in respect of the Winter Term. No additional fees are required from apprentice; who are retained for the Summer Term. Apprentices admitted for the Summer Term only pay fees at half the foregoing rates.

Fee yought be reid to the Division of the Summer Term only pay fees at half the control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term only pay fees at half the Control of the Summer Term on the Summer Term o

Free must be paid to the Principal on entrance, and in addition a sum of £1 must be deposited at the same time to cover the cost of repairs to clothes, the purchase of books, stationery, &c. The unexpended balance, if any, of this deposit will be refunded at the close of the Session.

### FREE PLACES.

A small number of free places provided under the terms of the Anne Hall Bequest are available for applicants from the Counties of Fernanagh and Londonderry. Applications for these places must be addressed in the first instance to the Agricultural Superintendent, Royal Dublin Society, Leinster House, Dublin

Apprentions will be associated

2. Fo

Apprentices will be required to provide themselves with a proper outfit, particulars of which will be supplied to the successful candidates.

### APPLICATIONS FOR ADMISSION.

Application for admission must be made on the prescribed form to be obtained from—

THE DEPARTMENT OF AGRICULTURE AND THORNICAL INSTRUCTION FOR IRELAND,

UPPER MERSION STREET, DUBLIN.

The applications will be dealt with in the order of their receipt in the Department's offices.

FORM A. 134 (a). 1910. DEPARTMENT OF AGRICULTURE AND TECHNICAL

INSTRUCTION FOR IRELAND.
AGRICULTURAL STATION, BALLYHAISE, CO. CAVAN.

SESSION 1910-11.

### CREAMERY COURSE.

Frovision has been made at the Agricultural Station, Ballyhaise, for a course of technical instruction for young men who intend to become Creamery Managers.

The course will commence on Tuesday, 11th October, 1910, and will terminate on Friday, 10th March, 1911. There will be an interval of about a forinight at Christmas.

The following subjects will be included in the course:—Physical Science

In relation to Creamery work; Dairy Bacteriology; Dairy Technology; Dairy Engineering; Business Methods.

Dairy Engineering; Business Methods.

The course will be particularly suitable for those who have had experience of creamery work.

Students who intend to compete for certificates under the Department's scheme for improvement in the management of creameries will have special facilities for the study of the subjects prescribed for the examination in connection with these certificates which is to be held in March,

At the close of the tochnical course at Ballyhaise Agricultural Station, a limited number of the best students will be afforded inclinies for learning the practice of Creamery Management during the summer of 1911, in a selected creamery in Iroland. Such students will receive a maintenance allowance at the rate of ten shillings por week, in addition to free instruction, while in attendance at the creamery.

Applicants for admission to the course must be at least eighteen years of age on the 1st October, 1910. Admission is conditional on passing the entrance examination, pro-

during certificates of good health and character, and paying the specified

Students are required to take part, as directed by the Principal, in all branches of the outdoor work of the Station which relate to dairying. They must conform strictly to the disciplinary rules in force at the Station.

### ENTRANCE EXAMINATION.

Particulars as to the date of this examination and the place at which it will be held will be notified to each applicant.

The following subjects are included in the examination:—

Arithmetic.—Calculations requiring a knowledge of weights and
neasures, decimal and vulgar fractions, areas, volumes and

percentages.

English.—Dictation, Grammer and Composition.

No expenses will be allowed to candidates in connection with their attendance at this examination.

The fee for tuition, board, residence, laundry and ordinary medical

attendance during the course will be £10. The fee must be paid to the Principal of the Station on entrance, and, in addition, a sum of £1 must be deposited at the same time to cover the cost of repairs to clothes, the purchase of books, stationery, &c. The

### unexpended balance, if any, of this deposit will be refunded at the close OUTPER.

Students will be required to provide themselves with a proper outfit, particulars of which will be supplied to the successful candidates.

APPLICATIONS FOR ADMISSION. Application for admission must be made on the prescribed form to be obtained from

THE DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND. UPPER MERRION STREET, DURING

of the course.

Applications will be dealt with in the order of their receipt in the Department's offices. They should be forwarded as soon as possible, and not later than 1st September, 1910.

FORM A. 176 (c.).

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

AGRICULTURAL EDUCATION FOR YOUNG MEN.

SESSION 1910-11.

FARM APPRENTICESHIPS.

AGRICULTURAL STATION, CLONAKILTY, COUNTY CORK.

Young men who intend to follow the farming profession and who desire to acquire a practical knowledge of its several branches are admitted to the Station as apprentices. The farm is managed by an experienced agriculturist, under whose

direction the apprentices are required to take part in all the work of the fields and of the farmyard, whether in connection with seasonable operations or permanent improvements. In the class-room attention is given, in the evenings and at other times when outdoor work is not pressing, to English, Arithmetic (including Surveying), Book-keeping and Technical Agriculture. This instruction is not intended as a preparation for any examination. It is of such a character as to continue the general education of the apprentices, and to be useful to them in their future career as farmers.

Applicants for apprenticeships must be not less than seventeen years of age on the 1st October, 1910, and each must give an undertaking that it is his intention to become a farmer in Ireland. He must also provide, in his application form, evidence of a sure prospect of obtaining a farm of his own, or bona-fide occupation on a farm. Preference will be given to applicants from the province of Munster, especially to those who have attended a course of instruction under the Department's Scheme of Winter Agricultural Classes, It will also be a recommendation if the applicant produces a certificate from the Itinerant Instructor in Agriculture for the County in which he resides that he has taken advantage of the Instructor's lecutes and demonstrations and has shown a desire to improve his knowledge of tillage farming.

The apprentices are required to reside in the buildings attached to the station, where they are in the charge of a house master and matron. The Session will commence on the 11th October, 1910, and will terminate on the 11th August, 1911. There will be two intervals, each of about a

fortnight, during which the apprentices may return to their homes-one

at Christmas and the other at Easter.

Admission as an apprentice is conditional on passing the entrance
examination, producing certificates of good bealth and character and
paying the required fee according to the scale indicated overlead.

Applicants who have been pupils at Winter Agricultural Classes will be

Applicants who have been pupils at Winter Agricultumal Classes will be exempted from the entrance examination provided their attendance and progress at the Agricultural Classes have been satisfactory.

Entrance Examination.

Particulars as to the date of this examination and the place at which it will be held will be notified to each applicant. The following subjects are included in the examination:—

Arithmetic—Simple calculations requiring a knowledge of weights and measures.

English.—Dictation, Grammar and Composition.

The examination will be of such a nature as should present little difficulty

to a young man who has passed the fifth standard at a National School.

No candidate will be admitted whose general education is insufficient to enable him to profit by the cleas-room instruction, or who is, in the opinion of the Department, unsuitable in any other respect for an apprenticeable.

No expenses will be allowed to candidates in connection with their attendance at this examination.

#### Treve

 For apprentices whose parents or guardians derive their means of living mainly from farming in Ireland the fees are proportional to the aggregate tenement valuation of their holdings, as follows:—

	Per Session
Where the aggregate valuation does not exceed £20,	£3
Exceeds £20 but does not exceed £40,	£6
Exceeds £40 but does not exceed £100,	£10
Exceeds £100,	£15
apprentices not included in the foregoing classes, .	£20

Appentices will be notified of the fees payable by them. Fees must be paid to the Superintendent on entrance, and in addition a sum of I must be deposited at the same time to cover the cost of repairs to clothes, the purchase of hools, stationery, &c. The unexpended balance, if any, of this deposit will be refunded at the close of the session.

### OUTFIT.

Apprentices will be required to provide themselves with a proper outfit, particulars of which will be supplied to the successful candidates.

APPLICATIONS FOR ADMISSION.

Application for admission must be made on the prescribed form, to be

obtained from—
THE DEPARTMENT OF AGRICULTURE AND

Technical Instruction for Ibeland, Upper Merricon Street, Dublin.

The applications will be dealt with in the order of their receipt in the Department's offices. They should be forwarded not later than 15th August, 1910.

### AGRICULTURAL COLLEGE, MOUNT BELLEW.

### Specior 1910-11.

The College stands in a picturesque and healthy position, in the midst of the charming woodland scenery of the Mount Bellew Demesne. It is under the management of the Franciscan Brothers.

New Laboratories, with all modern requirements, and a model farmyard have been lately built and equipped by the Department of Agriculture. The farms, gardens, and laboratories afford ample facilities for a thorough course in Technical Agriculture, and also in those subjects set out below. Students are required to take part in all farm operations in the field, farm-

yard and dairy. The Session for the year 1910-11 will commence on 5th September, 1910, and end on 20th June, 1911. Applicants must be 16 years of age, or over.

The course of instruction at the College includes the following subjects :-I.—Practical Farming.—Every Student is encouraged to take part in all farm operations, and is taught to follow the working of the system of Farming adopted, with interest and profit. Each

Student keeps for himself a set of farm books and notes all outlays and incomes for Farm Operations, Live Stock and Dairy, etc., as if the farm were his own. The final balancing at end of year tells him exactly how the farm paid, what paid best and where losses were sustained, etc. 2.-A course of Physics, Chemistry, and Biology explanatory of the

natural processes which increase or diminish the returns from farm operations.

3.—Farm Calculations, Surveying of Land.—Values of Manures and Feeding Stuffs.

4.—Study of Seeds, Grasses, Woods and Pastures, 5.-Use of Natural and Artificial Manures.

6.—Management of Live Stock. Winter Dairying.

7.-Veterinary Hygiene.

8.—Poultry-Keeping.

9.-Fruit Growing.

Bee-Keeping.

 Woodwork. Book-keeping.

### Terms.

Fifty Scholarships of £10 each will be awarded this year on the result of a qualifying Entrance Examination in the following subjects :- (a) English Composition (short essay or letter); (b) Arithmetic, tested by simple questions; (c) some knowledge of practical Agriculture. N.B.—The object of this examination is mainly to find out if candidates for scholarships have sufficient ability to profit by the programme of work outlined in Syllabus. Each Scholarship Student will be required to give an undertaking that it

is his intention to become a farmer in Ireland, or that he has a good prospect of obtaining occupation on a farm in Ireland.

The Pension for those awarded Scholarships will be £15, payable in advance.

For all others the pension will be £25 payable in two instalments, £15 on day of entrance, and £10 on the first of February. The fee for non-resident students shall be £3 per year, payable in advance.

Students are under the supervision of the Brothers at all times on the farm, in the laboratories, dormitories, and recreations.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

### THE MUNSTER INSTITUTE, CORK.

The classes at the Institute are open to female students only.

- The course of training includes :-I. The practice of dairy-work. The treatment of milk and the making of butter on a large and on a small scale with the most modern
- machinery and implements, as well as with the appliances generally used in farm dairies. II. Instruction in the feeding and management of cows, calves and pigs ;
- in the keeping of small gardens, and in the manipulation and caring of bees.
- III. Instruction in poultry-keeping. Breeds; their suitability for different purposes and different localities; housing, feeding and management; grading and packing of eggs; hatching and rearing of chickens; fattening, killing, plucking, trussing and preparation for market.
- IV. Instruction in domestic work, embracing plain cookery, plain needlework, laundry work, and home nursing.
- The fee for tuition, board and lodging during one term is £3 3s., and is payable to the Superintendent of the Institute on entrance Four terms, each of about eleven weeks' duration, and commencing
- respectively, in January, March, July and October, are held in each year. Intending students must be at least soventeen years of age on the date of their admission to the Institute. They are required to produce certificates of good health and character and to show that they have received sufficient general education to enable them to follow the course.
- Students are eligible for admission to a second consecutive term, provided they attain the required standard at the examination at the con-
- clusion of their first term. Students who have attended during two terms, and who are desirous of qualifying for the position of Itinerant Instructor in butter-making or poultry keeping under a County Committee of Agriculture and Technical Instruction or of Teacher in a School of Rural Domestic Economy for girls, are admitted to a third term on attaining the required standard at the second terminal examination and satisfying the Department's examiner as to their ability to impart instruction. If their progress during the third term is satisfactory they are re-admitted to enable them to complete their training. Attendance at the Institute during five or six terms is necessary to qualify students for admission to the examinations for Instructorships
- and Teacherships. Cirls who desire to become dairymaids in creameries, and who have attended two terms either at the Munster Institute or at a School of Rural Domestic Economy, will, on attaining the required standard at their second terminal examination be admitted to the third term course at the Institute. On completion of this course a limited number of these pupils will be afforded facilities for learning the practical work of a dairymaid in selected creameries in Ireland. In selecting the pupils to whom these facilities will be offered, regard will be had to (1) their knowledge of dairying as evidenced by their answering at the terminal examination at the conclusion of their course of instruction as third-term students, and (2) their physical suitability for the work of a dairymaid in a creamery. Each selected pupil will receive a maintenance allowance at the rate of ten shillings per week in addition to free instruction at a creamery for a period of twenty weeks.

The Department do not undertake to employ or to find employment for students on completion of their training.

A limited number of free places and half-free places are awarded to the students who display special merit at the terminal examination of the first term to enable them to avail of a second term entirely or partially free of expense. A few similar places are also offered to students who have stended two terms at the Institute.

The students are at all times under the supervision of an experienced matron.

Applications for admission must be made on the prescribed form which can be obtained from—

THE SECRETARY.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND, UPPER MERBION STREET, DUBLIN,

Fови A 255 (a).

# DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

## THE ULSTER DAIRY SCHOOL, COOKSTOWN, CO. TYRONE.

The School is situated on an extensive tillage and dairy farm about three miles from Cookstown Railway Station. It is provided with the most modern equipment for the teaching of the several subjects included in the programme.

The classes are open to female students only.

The course of training includes :--

I. The practice of dairy-work. The treatment of milk and the making of butter on a large and on a small scale with the most modern machinery and implements, as well as with the appliances generally used in farm dairies.

II. Instruction in the feeding and management of cows, and in farmyard lore.
III. Instruction in poultry-keeping. Breeds; their suitability for different

purposes and different localities; housing, feeding and management; grading and packing of eggs; hatching and rearing of chickens by natural and by artificial methods; fattening, killing,

IV. Instruction in domestic work, embracing plain cookery, plain needlework, laundry work and home nursing.

The fee for tuition, board and lodging during one term is £3 3s., and is payable to the Superintendent of the School on entrance.

as payable to the Superintendent of the School on entrance.

Four terms, each of about eleven weeks' duration, and commencing
respectively in January, March, July, and October, are held in each year.

Intending students most be at least seventeen years of age on the date of their admission to the School. They are required to produce certificates of good health and character and to show that they have received sufficient general education to enable them to follow the ocurse.

Students are eligible for admission to a second consecutive term, pro-

Students are eligible for admission to a second consecutive term, provided they attain the required standard at the examination at the conclusion of their first term.

Students who have attended during two terms, and who are desirous of qualifying for the position of Hienarat Instructor in hutter-making of poutry-keeping under a County Committee of Agriculture or of Teacher in a School of Rural Domestic Economy for girls may be admitted to a chird term provided they attain the required standard at the second

terminal examination and satisfy the Department's examiner as to their ability to impart instruction. If their progress during the third term is satisfactory they may be re-admitted to a fourth, fifth, or even a sixth term at the option of the Department to enable them to complete their training.

actions who down to become dairymaids in creameries, and who have attended two terms either at the Ulate Dairy Sebool or at a School of Rond Domestic Economy, will, on attaining the required standard at their Ulate Dairy Sebool. On completion of this course a limited number of these parish will be afforded facilities for learning the practical waves of a system than the contraction of the course a limited number of these parish will be afforded facilities for learning the practical waves of a system than the contraction of the course of the c

The Department do not undertake to employ or to find employment for students on completion of their training at the School. The students are at all times under the supervision of a responsible

matron.

Applications for admission must be made on the prescribed form, which can be obtained from—

THE SECRETARY,

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND,

UPPER MERRION STREET, DUBLIN.

FORM A 135 (c).

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

SCHOOL OF RURAL DOMESTIC ECONOMY, LOUGHGLYNN, CO. ROSCOMMON.

This school has been established in order to provide the women and grid of the neighbourhood with such practical training as will enable them to increase the comfort of their homes and improve generally the conditions under which they live. The particular object of the Department in premoting this type of instruction in read countryide, and thereby counterser the tendency of despite form work and absundor read lills. The training sims at making efficient housewives. It does not aim at the preparation of gibt for domestic service or for the factory or the short

The course of instruction comprises :---

Duirying—Including the making of choose as well as butter; and the caring and feeding of cows and calves.
Poultry-kerping—The rearing and management of hens, duels,

turkeys, and goese.

Pig-raring—The feeding and general management of pigs.

Gardening—The cultivation of such vegetables, fruits, and flowers as may be grown in the cottage garden.

Bee-keeping.

Sewing, Knitting, and Mending—Including the making and repairing of garments of every kind worn in the district.

Washing and Ironing.

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Cooking—The preparation, with inexpensive and simple utensils, of those dishes for which the materials are furnished by the products of the farm and the garden. Open hearths are used. The Cleaning and decoration of the home. Home Industries which can be carried on in time not required for the

farm or the household, such as lace-making, embroidery, carpet weaving, the making of artificial flowers, &c.

The School is open to all who wish to enter, without restriction as to relicious denomination. No fees are payable; the only conditions which the pupils must fulfil are that they should be more than fourteen year's of age and reside sufficiently near the School to permit of their returning daily to their homes.

In order to give the lessons direct practical application to the bome life of the people, the pupils are required to bring with them to the school so far as may be practicable, the materials needed for their work—the cream or milk for dairy practice; the poultry to be killed or dressed; the materials for the dishes to be cooked; the cloth for new garments; the clothing to be repaired, washed or ironed. The pupils take home with them in the evening the products of their day's labour, which serve as object-lessons to those who cannot be present at the classes.

Housewives and others in the neighbourhood who are not in a position to attend the classes daily, are at liberty to avail themselves of the instruction in any subject, and to come to the school for advice whenever they desire it in connection with their home work; and the teachers are prepared to visit the homes of persons who desire their guidance in the difficulties of household management.

FORM A 135 (d).

### DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

# SCHOOL OF RURAL DOMESTIC ÉCONOMY.

ST. MARY'S CONVENT OF MERCY, PORTUMNA, CO. GALWAY.

The school is open to female pupils over sixteen years of age without restriction as to religious denomination. The course of instruction is intended to qualify the pupils to perform efficiently the work of rural life, and includes-Dairying, Poultry-keeping,

Horticulture, Housebold Management, Cookery, Laundry-work, and Needle-work. The school year extends from the beginning of October to the end of August, and is divided into two sessions, which begin, respectively, in

October and in March. Intending pupils are required to produce certificates of good health and character. They will not be admitted unless they bave received sufficient general education to enable them to follow the course.

### RESIDENT PUPILS.

A number of places for resident pupils are provided by the Department. The fee for tuition, board and lodging during one session, covering a period of about twenty-four weeks, is £3 3s., and is payable to the Manager on entrance.

Pupils whose conduct and progress during their first session are satisfactory are eligible for admission to a second consecutive session on pay-

ment of the above-mentioned fee.

Application for admission must be made on the prescribed form which can be obtained from

THE DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND,

UPPER MERRION STREET, DUBLIN.

DAY PUPILS.

Applications for the admission of day pupils should be made to the Manager at the School. No fees are payable by day pupils,

FORM A 135 (b). DEPARTMENT OF AGRICULTURE AND TECHNICAL

INSTRUCTION FOR IRELAND.

SCHOOL OF RURAL DOMESTIC ECONOMY. CONVENT OF ST. LOUIS, RAMSGRANGE, COUNTY WEXFORD.

The school is open to female students over sixteen years of age without

restriction as to religious denomination. The course of training is intended to qualify the pupils to perform The course of training is intended to quarity the publis to perform efficiently the work of rural file, and includes—Desirying, Poultry-Leoping, Horticulture, Household Management, Cookery, Laundry-work and Koedle-work. Instruction in English, Arithmetic, Book-keeping, Elementary Science, and Chemistry is also provided.

The school year extends from September to August, and is divided into two sessions, which begin, respectively, in September and in March.

Thirty places for resident students are provided by the Department, The fee for tuition, board and lodging during one session, payable by the holders of these places, is £3, and applicants are required, before admission to the school, to produce certificates of good health and character, and to pass an examination in the elements of English and Arithmetic. The see payable by resident pupils other than holders of these places is £10

per session. Day pupils are admitted at a fee of £1 per session. Fees must be paid to the Manager on Entrance. Pupils whose conduct and progress during their first session are satisfactory are eligible for admission to a second consecutive Session.

Application for admission as a resident student must be made on the prescribed form, which can be obtained from

THE SECRETARY, DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND. UPPER MERRION STREET, DUBLIN.

Applications for the admission of day pupils should be made to the Manager at the school.

FORM A. 135 (f),

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND,

SCHOOL OF RURAL DOMESTIC ECONOMY. KILLESHANDRA VILLAGE INSTITUTE, COUNTY CAVAN,

The school is open to female pupils over fifteen years of age, without restriction as to religious denomination. The course of instruction is intended to qualify the pupils to perform efficiently the work of rural life. It includes Household Management, Cookery, Laundry-work, and Needle-work. Attention is also given to Dairy-work and Poultry-keeping.

Intending pupils must undertake to attend regularly and punctually. They may be required to produce certificates of good health and character and to show that they have received sufficient general education to enable them to follow the course.

enable them to rollow one course.

The school year is divided into two sessions which begin, respectively, in Angust and February.

#### RESIDENT PUPILS.

Arrangements have been made which admit of five pupils being boarded and lodged at the school. The girls to whom residential places are awarded are selected by the Manager, subject to the approval of the Department.

Pupils, whose conduct and progress during their first session are regarded by the Department as satisfactory, are eligible for admission to a second consecutive session.

### DAY PUPILS.

Classes for day pupils are held each week day (Saturday excepted), from 11 a.m. to 5 p.m.

II a.m. to 5 p.m.

In the case of persons, such as mothers of families, who are too much occupied with their household work to attend regularly throughout the session, arrangements will be made to admit of their attending any one course or separate lessons, without fee.

#### Www.

The fees are proportioned to the valuation of the holdings of the pupils' parents or guardians, as follows:—

A. For Day Pupils.				
Where the valuation does not exceed £20	34.	6d.	per	session,
Where the valuation exceeds £20 but does not ex-				
ceed £40		0d.	**	**
Where the valuation exceeds £40	78.	6d.	**	**
B. For Resident Pupils.				
Where the valuation does not exceed £20		£2	**	22
Where the valuation exceeds £20, but does not ex-				
ceed £40		£3	**	19
Where the valuation exceeds £40		24	,,	,,

Applications for admission should be made to THE DOMESTIC ECONOMY INSTRUCERESS,

THE INSTITUTE,
KILLESHANDRA.

FORM A, 181 (a), 1910.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

### FORESTRY INSTRUCTION.

A limited number of apprenticeships in Forestry will be awarded on the result of an examination which will be held at the Royal College of Science, Dublin, on the 8th September, 1910. The subjects included in this examination will be—

English—to be tested by dictation and a short letter.

Arithmetic—the first four rules, simple and compound; a knowledge of weights and measures, proportion, and percentages. A high standard will not be expected.

No expenses will be allowed to candidates in connection with their

attendance at this examination.

applicantage for apprenticeships must be not less than eighteen years of age and not more than twenty-five years on the lat October, 1910. They should be in good insulth, and of strong constitution, and have received a fair general education. Preference will be given to those applicants who have had experience in working in woods.

The asherds applicants will be required to work under the directions of a salided forman, for a freeze one year, rince of the woods belonging of a salided forman, for a freeze one year, rince of the woods belonging for improving their general chuestion. Apprentices who acquit themselves in such a names are to lead the Department of believe that they are likely attention of the properties of the properties of the properties of salided and the properties of the properties of the properties of salided and the properties of the properties of the properties of salided and the properties of the properties of the properties of the will be required to take part in the work of the woods attacked to the station or in such of the words belonging to the Department as may be

Successful candidates will be required to enter on their duties on the 4th

October, 1910,

Each appenties will receive during the first year an allowance at the rate of 14a, per week, with furnished lodging. When in receipt of this allowance the apprentices will be required to find their own board. Such of apprentices as are selected to attend at Avondale Station for a further period of tesining will be provided with free board, lodging and education, and receive allowances at the rate of 5s. per week.

Apprentices must undertake to conform with the rules and regulations made from time to time in connection with their work in the Depart-

ment's woods and at the Forestry station.

The engagement between apprentices and the Department may be determined at any time by one week's notice on either side.

The Department do not undertake to employ or to procure employment.

The Department do not undertake to employ or to procure employment for apprentices on completion of their training.

Applications for apprenticeships must be made on the prescribed forms

Applications for apprenticeships must be made on the prescribed fort to be obtained from

The Department of Assiguitation

AND TECHNICAL INSTRUCTION,
UPPER MERCHON STREET,
DUBLIN.
Last date for making application—25th August, 1910,

FORM A, 169 (a).

DEPARTMENT OF AGRICULTURE AND TRCHNICAL INSTRUCTION FOR IRELAND.

### FORESTRY

NOTICE TO OWNERS OF WOODS AND PERSONS PROPOSING TO FORM PLANTATIONS.

The Department are prepared to afford expert assistance to landowners and others who may require advice on such matters as the selection of sites for plantations, suitability of soil, choice of trees, treatment and valuation of existing woods, draining and fencing of woodlands, valuation of timber, growing of oslers, &c.

normal, the demands of resety, Expert will, so far as time will permit, white strating woods or lands which it is proposed to plant. It such easies for 60 ft 5, to cover part of the Expert's expense, will be charged when the defect of the cover part of the Expert's expense, will be charged when the department of the cover of the

The Department are also prepared to facilitate the planting of small areas by placing at the disposal of persons who propose to form plantations the services of any working foresters who can be spared from the Department's woods for a few weeks in the planting season. The wages and travelling oxpenses of these foresters must be paid by the persons by whom

traveling expenses they are employed.

The undermentioned leaflets on forestry subjects have been issued by the Department, and will be supplied to applicants free of charge:—

No. 65.—Forestry.—The Planting of Waste Lands. No. 66. The Proper Method of Planting Forest Trees.

No. 67. "Trees for Poles and Timber.

No. 68. , Trees for Shelter and Ornament.

No. 70. "Planting, Management, and Preservation of Shelter Belt and Hedgerow Timber.

No. 71. "Heit and Heugerow Limber.

No. 71. "The Management of Plantations.

No. 72. Felling and Selling Timber. No. 73. The Planting and Management of Hedges.

No. 83. "Cultivation of Osiers.
No. 94 Cost of Forest Planting.

No. 94. "Cost of Forest Planting.

Applications for visits from the Expert or for the services of skilled planters should be made on the forms provided for the purpose, and will be attended to as far as possible in order of their receipt in the Depart-

ment's offices.

Letters, which need not be stamped, should be addressed to

THE SECRETARY,

DEPARTMENT OF AGRICULTURE

AND TECHNICAL INSTRUCTION,

DUBLIN.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND, UPPER MERRION STREET, DUBLIM.

OPPER MERRION DIAMES, L

AGRICULTURAL SCHEMES, 1910-11.

No. 15109-10. Sir.

In forwarding, for the information of your Committee, the accompanying copies of the Agricultural Schemes for 1910-11, the Department desire to direct special attention to the alterations which have been made in the schemes, as well as to some of the more important regulations.

Scheme No. I .-- Horses,

It will be observed that the 31st August, 1910, is fixed as the last date for receiving applications for the registration of stallions without jets. Applications that the state of the sta

### Scheme No. 2.—Cattle.—No change.

### Scheme No. 3.-Swine.

Under clause 13 the Committee are given discretion to fix the value of a premium within the limits specified therein.

Owners who have compiled with all the conditions of the scheme may

apply for payment of the premium on or after 1st August.

### Scheme No. 6,-Subsidies to Agricultural, etc., Societies.

The Department are pleased to note a considerable improvement in the case of many Blow Secieties in the matter of compliance with the regular content of the content of the

### Scheme No. 7 .- Prizes for Cottages and Small Farms.

Clause 5 provides that it shall be the duty of the County Committee to examine the entry forms and to satisfy themselves, as far as practicable, as to the eligibility of each entrant before the list of competitors is supplied to the index.

### Scheme No. 10.-Winter Agricultural Classes.

No applicant shall be permitted to join a class after the lapse of two weeks, from the date of the first meeting of the class (clause 4 (6)). Attention is directed to the fact that meat meak may not be provided for students.

The regulations as to travelling allowances to students have been revised, and, accordingly, students who reside beyond a radius of three statute nulles from the class centre, may, at the end of the course, be allowed the cost of third-class railway tickets, or one penny for each mile by which this double journey by road between their homes and the class centres exceeds

mix miles (clause 5).

Students of Winter Agricultural Classes whose attendance and progress
Students of Winter Agricultural Classes whose attendance and progress
thereat have been satisfactory will receive special preference in connection
with thesaward of agricultural apprenticeabing at the Department's Agricultural Stations. Such students will be exempted from the entrance
examination prescribed for other applicants for these apponatiosehins.

### Scheme No. 11.—Poultry Keeping.

As intimated in the communication (No. 15645-09) addressed to you last year from these offices, Houdan fowl will not be recognised in any future year.

year.

In no case shall lectures be given after the end of the hatching season (clause 7). After stations have been reported by the Instructor to be fully stocked, at least two complete inspections of geess and turkey stations in

the County should be made before 31st May (clause 9), and no birds should be disposed of until after the latter date (clause 10 (7)). No gaustier shall be retained for more than six years at any one station. A garder which has been for six years at one station must be replaced by a bird unrelated to the stock at the station (clause 31 (2)).

### Scheme No. 12.—Tutorial and Practical Classes in Poultry Keeping.

It is provided that classes shall be held at each selected centre for at least two, but not more than four, weeks; and that eighteen pupils may be schmitted to any class (clause 2).

### Scheme No. 14 .- Horticulture and Bee-Keeping.

With regard to demonstration plots, it is not considered desirable to Committee sure print to any plot for more than three years. The County Committee sure that the property of the presentation of the prescribed to forward to the Department on the prescribed that the presentation of the presentation o

the instructor (clause 10 (c)). The Department have drafted a form of undertaking which must be signed by the owners of new demonstration plots. When the new plots have been selected by the Committee and approved by the Department, a sufficient number of copies of this form will be supplied to the Committee.

#### EOTTPMENT

It will be observed that a regulation has been inserted in each scheme imposing on the Secretary of the County Committee the duty of keeping an inventory and being responsible for the custody of all equipment provided for the purposes of each scheme.

vided for the purposes of each senemu.

A supply of the schemes will be issued to you on receipt of your application, which should be made on the accompanying form. It is particularly requested that you will not sak for more copies than ean be profitably used during the year.

\*\*Sir\*\* Sir\*\* Si

am, Sir,
Your obedient Servant,
T. P. Gill,
Secretary.

The Secretary of each County Committee of Agriculture.

SCHEME No. 1.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

SCHEME FOR ENCOURAGING IMPROVEMENT IN THE BREEDS OF HORSES.

# GENERAL REGULATIONS.

1. The main objects of this scheme are to encourage the improvement of Bores Breeding in Feshad by indusing stallan corners to keep satisfactor or the property of the contract of the property of the contract of Agriculture, as the case may be, breening referred to as the Courty Committee of Agriculture, as the case may be, breening referred to as the Courty Committee of the contract of the co

2. The sum to be provided by the Department under this scheme for encouraging improvement in the breeds of homes in a county will depend on—(1) the amount provided in aid of the scheme by local authorities, (2) the special needs of the locality, and (3) the proportion which the amount of the logal-countribution bears to the genuine expactly of the locality to

contribute.

In accordance with Section 16 (6) of the Agriculture and Technical
Instruction (Ireland) Act, 1896, the Department will not, in the absence of
special considerations, apply or approve of the application of money under
this scheme in a locality out of which aid is not given either by local authortities or from other local sources.

 The joint fund available under this and other live stock schemes, comprising the grant from the Department and the money provided locally, will, subject to the approval of the Department, be administered in a county in accordance with the provisions of Clauses 6 and 7.

4. The Secretary of the County Committee, hereinafter referred to as the Secretary, whose appointment for the year and whose duties must first be approved by the Department, shall act as Secretary to the sub-committee for live stock.

5. It will be the duty of the Secretary to submit, for the approval of the Department, all details of schemes proposed for his county.

No action shall be taken by the County Committee towards putting this scheme into operation until the sanction of the Department has been obtained in writing: 6. The County Council should by resolution delegate to the County

Committee full powers for the purposes of the Agriculture and Technical Instruction (Ireland) Act, 1899, and that Committee should appoint from among their own members an executive sub-committee for live stock.

No payments, however, in connection with this scheme shall be authorised except by the County Committee.

7. The duties of the sub-committee for live stock will be to frame the details of the live stock schemes for the county in accordance with the conditions of the Department's general scheme, and to act as the executive committee for the administration of such county schemes when they have been approved by the County Committee and by the Department, but the executive sub-committee shall not have the power of authorising any payment in connection with these scheme,

8. The joint fund available under this scheme shall, after the expenses of administration are provided for, be applied solely for nomination of

mares. 9. In the event of there not being a sufficient number of registered stallions in any county for the purposes of this scheme, the Department may provide for such county, under certain conditions to be prescribed by them, by assisting approved applicants, whether individuals or associations, to buy suitable stallions under the Department's scheme of loans for the purchase of stallions.

### REGISTRATION OF STALLIONS.

10. Thoroughbred stallions, calculated to produce weight-ca rying hunters and high-class harness horses, may be registered for any county 1 . 4 in Ireland. Irish Draught and Half-bred stallions may be registered for any county

in Ireland.

All Clydesdale and Shire stallions registered in 1910 may again be offered for registration under this scheme for the particular districts in which they were registered during that year, but no other stallions of these breeds will be accepted for registration in 1911 except for the Province of Ulster, the counties of Doblin and Louth, and the district comprised within a radius of ten miles of the city of Cork.

11. The Department will publish a register of Thoroughbred, Irish Draught, Half-bred, Clydesdale, and Shire Sires approved for service under this scheme. Owners of suitable stallions are invited to apply to have their horses placed on the Register, subject to the provisions of this scheme. A stallion to be entitled to a subsidy in the form of nominations, or otherwise, must be registered or accepted for registration in the Department's Register of Stallions for the year 1911.

Copies of the Register, when published, may be had free of charge on

application to the Department.

12. (1.) Owners offering their stallions under this scheme must, if reuired, submit them to inspection and veterinary examination by the Department. Notice of the arrangements as to place and method of inspection will be given.

(2.) Owners of stallions failing to present their animals for inspection on the dates and at the places selected will be liable to have their applications

cancelled by the Department

(3.) Thoroughbred stallions, to qualify for registration, must be entered in Weatherhy's Stud Book, or, if Clydesdale or Shire, he entered in the stud book of the respective breed. If required, the stallion owner or (if the stallion is heing purchased with a view to registration in Ireland) the vendor must produce a certificate from the keeper of the stud hook to the effect that the stallion offered for registration is entered in the stud hook or will duly appear in the next volume.

(4.) No application will be considered in which every particular required in the form of application is not supplied.

(5.) No application will be considered in respect of a stallion fooled in 1909

(6.) The owner of a stallion accepted under this scheme must agree not to permit that stallien to serve more than fifty nominated mares, which are entitled to its services. This regulation is subject, however, to the

conditions stated in Clauses 21 (14), 22 (1), and 30. (7.) Stallions approved under this scheme will be accepted for particular

districts only, and shall not, without the written consent of the Department, he removed to other districts. If a stallion is removed without such consent to a district for which it was not accepted, the name of such stallion shall he removed from the Register, and the owner shall forfeit all claim to any monies which may he payable to him under this scheme. 13. Forms of application for the purposes of this scheme may be had

from the Department. One of these forms, accurately filled up in every particular and signed by the owner or his agent, must be lodged in or sent by post so as to reach

the offices of the Department not later than the 31st August, 1910. An application received between 1st and 30th September, 1910, will not be accepted unless accompanied by a fee of £1. An application received between 30th September and the 30th November, 1910, must be accom-

panied by a fee of £5. Applications for registration in respect of stallions already at stud in

Ireland will not be accepted after the 30th November, 1910. (1.) Applications in respect of stallions imported into Ireland after the 31st August, 1910, will be considered without fee if received on any date up to the 28th February, 1911. Similar applications in regard to stallions in Ireland which have not previously been used for stud purposes will be considered up to 28th February, 1911, provided they are each accompanied by a fee of £5. The entry of such stallions in the published Register for 1911 cannot, however, be guaranteed, but the owners of such stallions will be accorded all the privileges enjoyed by the owners of stallions appearing in the printed Register.

(2.) A person in Ireland intending to import a stallion or to huy a stallion already located in Ireland is advised not to complete the purchase until he has received formal notice in writing from the Department that the stallion in question will be accepted under this scheme for a particular district-

[See clause 18.]

(3.) The Department will, as far as practicable, supply the services of their Inspectors free of charge to persons in Ireland intending to purchase and import suitable stallions for districts in which there is not a sufficient number of approved stallions for the purposes of this scheme; the stallion, however, must have been seen and provisionally approved by the intending (4.) The vendor of a Pure-hred sire must, if required, suhmit a certificate

from the Secretary of the Stud Book to the effect that the animal is entered

in the stud hook, or will duly appear in the next volume.

15. Stallions may be inspected for their general merit and fitness for the purposes of the scheme. Such inspection shall be carried out by one or more Inspectors, appointed by the Department. If the stallion has been to stud, evidence of his fruitfulness, and, where practicable, of the character of his stock, must be produced, if required. Inspection for general fitness, when deemed necessary, shall, as far as possible, precede veterinary examination.

16. (1.) The veterinary examination shall be carried out by one or more

qualified Veterinary Surgeons, appointed by the Department.
(2.) No stallion shall be rejected as unsound unless suffering from one

of the following diseases: -- Cataract, Roaring, Whistling, Ringbone, Sidebone, Unsound Feet, Spavin, Curb. 17. The inspection for general merit and fitness and the veterinary examination of stallions may be dispensed with in cases where evidence of suitability and soundness have been sufficiently established to satisfy

the Department.

The Department, however, shall have the right to inspect an accepted

stallion at any time. 18. The Department cannot undertake to disclose their reasons for

the non-acceptance of any animal, but with the exceptions hereinafter mentioned the owner of any stallion in Ireland not accepted may have his case reconsidered by one or more referees appointed by the Department. Every notice of appeal must be accompanied by a fee of £5, which will be returned in the event of the appeal being upheld. Notice of appeal must be given in writing within ten days from the date of the letter of rejection. This privilege shall not extend to cases in which stallions have been rejected on appeal in a previous year or to cases in which stallions are

offered under clause 14 (1 and 2). 19. The Department reserve to themselves the right, without assigning any reason, or without inspection or veterinary examination, to decline to place or retain on the Register any stallion for the purpose of this scheme.

No right of appeal shall lie in the case of stallions rejected under this clause 20. The owner of a stallion who makes, or promises to make a gift to the owner of a nominated mare of portion of the service fee, allows a nominated more to be served by a stallion other than that originally selected by the owner of the mare, or who is detected in any other fraudulent practice in connection with this scheme shall have his horse struck off the Department's Register, and shall be debarred from obtaining any future benefit under the Department's schemes. He shall also forfeit any claim in respect of monies due to him under this scheme.

### NOMINATIONS OF MARES.

21. (1.) Upon consecutive dates, and at places to be first approved by the Department, exhibitions of farmers' mares shall be beld in each county for the nurpose of issuing nominations.

(2.) Wherever practicable, and in order to avoid unnecessary expense, two exhibitions should be held on one day at two centres, i.e., one in the

morning and one in the afternoon. (3.) The County Committee shall give due notice to farmers in the county of the dates, &c., fixed for such exhibitions by means of posters, advertisements in the local newspapers, circulars, or such other method as may be deemed by the Committee to be the most effective and economical for the

purpose.

(4.) The Secretary must send to the Department two copies of each such poster, advertisement, circular or other notice as soon as issued. (5.) The Secretary shall receive entries for each exhibition on forms to be obtained from him. Each form must be signed by the owner of the mare, who must certify on the form that all the particulars given thereon are correct. Further, if required, this certificate must be attested by a

(6.) Marcs to receive nominations must be the bona-fide property of a farmer resident in the county (with the exception of the case provided for

in No. 9 of this clause).

(7.) In order to secure the second of the main objects stated in Clause 1. of this scheme, preference will be given to the best young mares under six years of age.

(8.) Each mare must be the bona-fide property of a farmer, the tenement valuation in aggregate of whose holding or holdings, wherever situated. and for which he is rated, does not exceed the limit fixed by the County Committee.

Subject to such conditions as may be prescribed by the Department. herds' mares will be eligible to compete for nominations.

(9.) A farmer whose holding extends into more than one county may apply for a nomination in any one of the counties in which he holds land provided the aggregate tenement valuation of the holdings, wherever situated, and for which he is rated, does not exceed the limit fixed under (8) for the county in which he proposes to compete,

(10.) The mares to receive nominations shall be selected by a judge or judges appointed by the Department, and they must be passed free from any hereditary disease by a Veterinary Surgeon appointed for that purpose by the Department. The decisions of the judge and of the Veterinary Surgeon as to the suitability and soundness respectively of mares for

nominations will be conclusive.

(11.) No farmer shall receive more than one nomination, unless the number of mares selected and reserved be insufficient for the granting of the full number of nominations allotted to the county, in which case a second nomination may be awarded.

(12.) At each local exhibition all eligible marcs not selected for nominations shall be placed on a reserved list in strict order of merit,

(13.) Owners of registered stallions have a right to require hobbles to be used.

(14.) Owners of registered stallions may refuse service to mares suffering from a contagious disease; but the reasons for such refusal must be intimated immediately to the Department and to the County Committee by

the stallion owner. Mares can be served only at their owners' risk. 22. The County Committee, with the approval of the Department, may-(L) subject to the provisions of Clause 10, restrict nominations to any

one or more of the breeds of stallions on the Register: (2.) refuse a nomination for any mare, without assigning any reason therefor :

(3.) for the purpose of identification, brand all mares selected for nominations; (4.) require the owner of each nominated mare to deposit a sum not exceeding £2, such deposit to be refunded if the mare is served by the selected stallion or to be forfeited to the Committee in the event of the

owner failing without sufficient cause to have the mare served by such stallion: (5.) make regulations which will render a farmer who, without sufficient cause, fails to send his nominated mare to the selected stallion, inclinible

to enter mares for nominations in subsequent years; and (6.) make regulations in regard to any other matter under this scheme.

All regulations so made shall take effect in the county as if incorporated in this scheme. 23. The term "farmer" is to be understood to mean a person who

derives his means of living mainly from farming. 24. (1.) The lists of owners of mares selected for nomination and of mares reserved must be submitted to the Department by the Secretary, within six days after the date of the last exhibition in the county, on the form

supplied for the purpose, (2.) The dockets for the selection of stallions and the service tickets will be supplied to the Secretary, when such form, complete, has been received by the Department. The selection dockets and service tickets shall then be filled in by the Secretary, who shall return them to the Department for the necessary check and authorisation for issue.

(3.) The Secretary, before issuing the selection docket, shall date it. (4.) The service ticket must not be issued by the Secretary until the owner of the mare has returned to him the selection docket with the name

of the selected stallion duly entered thereon by the said owner. (5.) Not later than the 10th day of August, 1911, the Secretary shall

forward to the Departmet, on the form provided for the purpose, particulars regarding the distribution of such tickets,

25. (1.) A farmer receiving a nomination must select one of the approved stallions in Ireland of the breed named by the County Committee under Clause 22 (1), provided the service list of the stallion selected is not already full. See Clause 26 (2).

(2.) Such farmer must insert on the selection docket the name of the stallion by which he wishes to have his mare served, and must return said

docket so as to reach the Secretary not later than sixteen days from the date of issue of such docket. He must also transmit with the docket the amount of the deposit, if

any, fixed by the County Committee under Clause 22 (4.)-

26. In any one of the following cases the nomination shall be forfeited and shall lapse :--(1.) If the farmer to whom a nomination is issued should fall to select

a stallion within the sixteen day limit. (2.) If the owner of the mare is also the owner of the stallion selected. (3.) If the farmer to whom a nomination is issued should permit his nominated mare to be served by a stallion other than that originally selected."

(4.) If the nominated mare should die before first service. (5.) If the nominated mare should be sold before the date of the first

service. (6.) If the nomination has been obtained through any misrepre-

sentation. The Secretary shall cancel and return to the Department the numbered tickets for all such lapsed nominations, and may issue to the owners of mares strictly in the order in which they appear on the reserve list new tickets to be obtained from the Department in lieu of such cancelled

tickets. 27. A nomination is not transferable, and is available only for the selected mare.

28. The service season shall be reckoned to begin on the 1st day of March, 1911, and to terminate on the 31st day of July, 1911.

29. The value of the nomination fee shall be uniform for the county, but may vary with the breed of stallions selected, and shall be not less

than £2, or more than £3. 30. (1.) When the service fee exceeds the value of the nomination, the excess shall be paid by the owner of the mare to the owner of the stal-

lion at the time of the first service, or at such other time as may be agreed upon between them. (2.) In addition, the farmer shall pay a groom's fee of 2s. 6d. for each

nominated mare. 31. (1.) Not earlier than the 1st August, 1911, and not later than the 1st October, 1911, the owners of stallions shall forward to the Secretary

the selection of dockets and the service tickets for the services effected by their sires, accompanied by a statutory declaration to the effect that the conditions of service have been duly complied with. (2) The form of declaration required under this clause may be had on

application to the Secretary. (3.) The Secretary shall examine and check all these documents, and

when certified by him as correct shall forward them to the Department. (4.) Payment of nomination fees to owners of stallions shall not be made until the Department have been satisfied as to the fulfilment of the conditions of this scheme, and have signified in writing their approval of each

particular payment.

32. No payment shall be made in any of the following cases— (1.) Where any erasure or alteration appears on either the selection docket or the service tickst.

(2.) Where both the selection docket and the service ticket bearing corresponding numbers are not produced.

Where a nomination issued in respect of a particular nominated mare is used for another mare, whether nominated or not.
 Where service has been effected by a stallion other than that

originally selected.
(5.) Where an owner who received a nomination failed to send his

mare for service.

(6.) Where the owner of a stallion fails to lodge by 1st October, 1911,

with the Secretary, in the manner provided in Clause 31, his claim for payment of nomination fees. 33. The owner of a mare who accepts, or agrees to accept, from a stallion owner, portion of the service fee, changes nominations, substitutes mares.

enters one or more mares for nomination in the name of another person, or causes or permits his mare to be so entered, or any person detected in any other fraudulent practice in connection with these regulations shall in addition to any penalty to which he may be liable by law, be debarred from obtaining any future benefits under the Department's schemes.

34. In all cases of dispute in matters connected with this scheme the decision of the Department shall be final.

Scheme No. 2.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

SCHEME FOR ENCOURAGING IMPROVEMENT IN THE BREEDS OF CATTLE.

1911.

1. The main objects of this scheme are to improve the duty and severaltie in Irealand by encouraging the recoloid or dimensional or man below balls or registered duty bulls of a high degree of excellence and by its dusing associations of farmers or persons of means to pourchess high clease of the contract of the c

2. The sum to be provided by the Department under this scheme for emouraging improvement in the breeds of cattle in a county will depend on—(1) the amount of money orded in aid of the scheme by local authorities, (2) the special needs or the locality, and (3) the proportion which the amount of the local contribution bears to the genuino capacity of the locality to contribute.

In accordance with Section 16 (6) of the Agriculture and Technical Instruction (Ireshal) Act, 1899, the Department will not, in the absence of special considerations, apply, or approve of the application of money under this scheme in a locality out of which aid is not given either by local authorities or from other local sources.

3. The joint fund available under this and other live stock schemes, comprising the grant from the Department and the money provided locally, will, subject to the approval of the Department, he administered in a county in accordance with the provisions of Clauses 6 and 7.

4. The Secretary of the County Committee, hereinafter referred to as the Secretary, whose appointment for the year and whose duties must first be approved by the Department, shall act as Secretary to the subcommittee for live stock.

5. It will be the duty of the Secretary to submit, for the approval of the Department, details of all schemes proposed for his county. No action shall be taken by the County Committee towards putting

this scheme into operation until the sanction of the Department has been

obtained in writing. 6. The County Council should by resolution delegate to the County Committee full powers for the purposes of the Agriculture and Technical Instruction (Ireland) Act, 1899, and that committee should appoint from

among their own members an executive sub-committee for live stock, No payments, however, in connection with this scheme shall be autho-

rised except by the County Committee.

7. The duties of the sub-committee for live stock will be to frame the details of the live stock schemes for the county in accordance with the conditions of the Department's general scheme, and to act as the executive committee for the adminsitration of such county schemes when they have been approved by the County Committee and by the Department; but the executive sub-committee shall not have the power of authorising any payment in connection with these schemes.

8. The joint fund available under this scheme shall, after the expenses of administration are provided for, be applied solely in providing pre-

miums for bulls, 9. In exceptional circumstances the Department may, under certain conditions to be prescribed by them, provide for a county either by purchasing bulls on behalf of applicants selected by County Committees under Clause 17, or by granting loans to approved applicants who desire to purchase bulls through the Department.

Applications for loans under this clause should be made-by the selected individuals-directly to the Department not later than 1st March, 1911.

10. Subject to the approval of the Department, premiums may be restricted to one or more breeds of pure-bred bulls or registered dairy

11. Only bulls entered, or qualified by pedigree for entry, in the herd books of their respective breeds, or in the Department's register of Dairy Cattle shall be eligible for premiums. The owner of a pure-bred bull not entered must, if required, produce a certificate from the secretary of the herd book to the effect that the bull is eligible for entry and will duly appear in the next volume. (See Clause 16 (2)). In the case of a registered dairy bull a certificate from the Department must be produced.

12. Bulls of the following ages are eligible to compete for premiums :-(1.) Yearlings, calved between 1st September, 1909, and 1st May,

1910: (2.) Two-year-olds, calved between 1st September, 1908, and 31st

August, 1909; (3.) Three-year-olds, calved between 1st September, 1907, and 31st

August, 1908: (4.) Four-year-olds, calved between 1st September, 1906, and 31st

August, 1907. All bulls must show a high degree of excellence. Two-year-olds, threeyear-olds, and four-year-olds which show signs of having been badly cared,

or which are not fully developed, will not be selected. 13. The amount of a premium for a high-class pure-bred bull (other than a Galloway, Kerry, Dexter, Welsh, or Ayrshire bull) payable, subject to the regulations of this scheme, at the end of the season shall be not less than £10 nor more than £15. Where special provision for the use of Galloway, Kerry, Dexter, Welsh, and Ayrshire bulls is made with the approval of the Department, the value of the premiums shall be £10. In the case of registered dairy bulls the premium shall be £10.

14. The owners of all two-year-old, three-year-old, and four-year-old bulls applying for premiums under this scheme must, if required, produce evidence of the fruitfulness of the bulls in the preceding year.
15. (1.) Bulls which were awarded premiums in 1910 will be inspected

by the Department prior to the spring shows and sales, at places and on dates of which the owners will be duly advised by the Department.

dates of which the owners will be duly advised by the Department.

In no case will an animal be inspected at the owner's residence.
(2.) Owners of such bulls failing to present their animals for inspection

on the dates selected will not have their cases reconsidered.

(3.) The Department will furnish the County Committee as soon as practicable with a list of bulls which have been passed under this clause as eligible for premiums in 1911.

as eligible for prenums in 1911.

(4.) The County Committee shall then proceed to select applicants for premiums for bulls to be selected at any of the principal shows or sales of bulls. In making such selections regard shall be bad to the needs of the various districts in the county, provided that no two bulls of the same

breed shall be located in the county within three miles of each other.

(5) A bull provisionally selected for a premium under this clause must stand for service at the same place as in 1910, and unless in exceptional circumstances approved by the Department, the owner will not be allowed

circumstances approved by the Department, the owner will not be allowed to change the premium to a yearling bull. 16. (1.) Bulls of the ages specified in Clause 12, other than those referred

to in Clause 15 (3), shall be selected at the principal spring shows and sales. The provisional selection of bulls for premiums at these shows and sales shall be made by the Department alone. (2.) Only those pure-bred bulls will be inspected for premiums the

owners of which have given a written undertaking to the effect that when so required by the Department they will have their provisionally selected bulls duly entered in the herd books of the respective breeds.

(3.) Intending purchasers must make their own selection from the list of animals passed by the Department.

17. (1) The County Committee shall, by means of advertisements in the local papers or by posters, invite applications from persons who, if selected, are prepared to keep in districts not provided for in Clause 15 premium bulls to be purchased or exhibited at one or other of the principal shows or sales. Such applications must be made on forms to be

obtained from the Secretary.

(2.) A list of such applicants, when selected by the County Committee should be forwarded to the Department by the Secretary, on the form pro-

vided for that purpose, not later than five days before the show or sale

at which the bulls are to be selected.

(3.) The Department's Inspector or Inspectors will attend at the principal shows and sales. They shall not be empowered to recognise applications from any persons attending the shows or sales whose names are not on the list supplied by the Secretary as baving been duly selected to

not on the list supp. keep premium bulls.

(4.) Applicants selected by a County Committee exhibiting or purchasing at one of the principal shows or sales provisionally selected bulls of the breeds approved by the County Committee need not again show these bulls in 1911 for a premium. The granting of a premium to a bull shall not in any way be regarded as affording a right to a premium in a

subsequent year.

(5) As soon as a selected applicant has procured a bull which has been provisionally passed for a premium he should notify the Sceretary on a form to be obtained from the latter for the purpose. The Sceretary shall thereupon advise the Department on the prescribed form of the particulars as to the location, &c., of the bull, and obtain the searching, in writing,

of the Department with the least possible delay.

18. The service season for a premium bull shall not commence until

18. The service season for a premium bull shall not commence until the owner of the bull has notified the Secretary on the form mentioned in Clause 17 (5) that he has procured a bull.

The service season for premium hulls shall close on 31st December, 1911. 19. The Secretary shall supply the owner of each premium hull under this scheme with posters, which such owner must undertake to distribute

n the district in which the hull is to serve. 20. Each premium yearling hull shall serve not less than thirty cows, and all other premium bulls not less than forty cows each, other than those that are the property of the owner of the hull. The service fee for the number of cows stated shall be 1s. each, inclusive of all charges, but the County Committee may, if they think fit, fix the service fee at 2s. 6d. per cow, inclusive of all charges, in the case of farmers whose valuation exceeds the minimum limit fixed by the Committee. After the minimum number of cows has been served the owner may fix such fee as he may desire.

21. The County Committee, with the approval of the Department, may make such regulations as they think necessary with regard-

(1) to the inclusion or otherwise of four-year-old hulls, (2) to requiring applicants for premiums to deposit with their application a sum not exceeding £2 in respect of each hull-such deposit to be refunded in case the applicant is not selected by the County Committee or if he procured a premium hull. The deposit to he forfeited to the County Committee in the event of the applicant omitting to procure a premium hull).

(3.) to the number of premium hulls which any one person may keep, provided that no person shall possess two premium hulls of the same breed unless located at least three miles from each other, (see Clause 15 (4) ), (4) to the place in which a premium hull shall remain during the season for service (see Clause 15 (5) ),

(5) to requiring the owner of a premium hull not to keep any other

bull on the farm on which such premium hull is located, (6) to the penalties to he imposed upon the owner of a premium bull who fails to take proper care of the animal.

(7) to the number of cows which any one farmer may send to a premium bull, (8) to requiring owners of premium bulls to exhibit their animals at

one of the shows subsidised by the County Committee, (9) to requiring owners of premium hulls to retain their animals in the

district until 1st September, 1911. (10) to cancelling the award of a premium to a hull which is sold out of the country before it has served the prescribed number of cows,

(11.) to the exclusion of pedigree cows from this scheme, (12) to requiring selected applicants to purchase such premium hulls only as are certified to have passed the tuherculin test, and

(13) To any other matter under this scheme. All regulations so made shall take effect in the county as if incorporated

in this scheme. 22. Each cow shall he the property of a farmer resident in the county, the aggregate tenement valuation of whose holding or holdings, whereever situated and for which he is rated, does not exceed the limit fixed by the County Committee.

Herds, artisans and bong fide agricultural labourers may obtain service for their cows on the same terms as farmers.

23. The term "farmer" is to be understood to mean a person who

derives his means of living mainly from farming The owner of a premium hull shall not, before the stipulated number of cows has been served, reserve the use of the hull for cows the property of any individual or of the members of any society. He must, subject to the provision of Clause 29, allow the hull to serve cows in the order in

which they are presented. 25. The Department reserve the right to brand or mark premium hulls, and to inspect them from time to time. The Department also reserve the right to apply the tuherculin test,

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at their own expense, to any premium hull. See Clause 21 (12).

27. The owner of each premium bull must satisfy the County Committee that he has provided himself with a syringe and disinfecting materials, and that these have been regularly used on the bull after each service, in accordance with the instructions given in the Department's leaflet No. 13, on Contagious Abortion in Cattle.

It will be the duty of the Secretary to obtain this information for the Committee, and to notify the Department at an early date of the results

of his inquiries.

It will also be the duty of the Secretary to arrange that the owner of each premium bull shall distribute among owners of cows in his district a number of copies of the Department's leaflet No. 13.

28. In the event of infringement of or non-compliance with any resulation of this scheme or of the bull being unable from any cause to com-

plete the prescribed number of services, the Department reserve the right to withhold the premium, or any part of it, or in any other way to deal specially with the case, as the circumstances may require.

29. The owner of a premium bull has the right to refuse the use of his bull in any case where he is satisfied that the service would be projudicial to the animal. The ressons for such a refusal, however, must, immediately on the refusal of the application, be communicated to the County Committee, who may take such action as they think fit subject to the approval

of the Department.

30. (1.) Not earlier than 1st September, 1911, and not later than 15th January, 1912, the owner of each premium bull shall forward to the Secretary on the prescribed form a return of the names, addresses, and valuations of the persons whose cows have been served by the bull-together with dates of such services—at the fee named in Clause 20.

(2.) The Secretary shall examine and check all such forms, and when certified by him as correct shall forward them to the Department.

(3.) As soon thereafter as the Department are satisfied as to the fulfilment of the conditions of this scheme the Secretary will be notified that payment of the premium or part of the premium payable under this

scheme may be made to the owner of the bull. (4.) Any premium not applied for on or before 15th January, 1912. shall be considered as having lapsed.

31. In all cases of dispute in matters connected with this scheme the decision of the Department shall be final.

Scheme No. 3.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

SCHEME FOR FNCOURAGING IMPROVEMENT IN THE BREEDS OF SWINE.

1911

Clauses 1 to 7, inclusive, of the Department's Horse and Cattle Schomes, 1911, shall, with the necessary modifications, apply to this scheme.

8. The system to be adopted in connection with this scheme for encouraging improvement in the breeds of swine shall be the provision of

premiums for selected boars. Subject to the approval of the Department premiums may be restricted to one or more of the following breeds of swine, viz.: Large

White York, Large Black, Large White Ulster, 10. Only bears eligible for entry in the Herd-books of their particular breeds, in the Register of Pigs of the Royal Dublin Society, or in the

Register of Ulster Swine established by the Royal Ulster Agricultural Society, shall be eligible for premiums. The owner of a boar selected for a promium must, if required by the Department, have the animal entered

in the proper Herd-book or Register as the case may be. 11. Boars belonging to any Society or to any Association of Farmers shall be eligible to compete for premiums; but the premiums shall be paid to the Society or Association, and not to the individuals in whose charge the

boars are placed.

12. A boar when inspected for the first year's premium should be not less than five months nor more than twelve months old. The grant of a premium to any boar shall not be regarded as affording any right to a premium in a subsequent year.

13. The value of a premium shall not exceed £5 for the first year, and

£3 for the second year.

14. Only those boars which were awarded first year premiums in 1910 shall be eligible for second year premiums in 1911. All such boars must show a high degree of excellence. Two-year-old boars which show signs of having been badly cared or are not fully developed will not be selected. The owner of a boar selected for a second year premium must produce evidence of the fruitfulness of the boar in the preceding year.

15. A boar which may be awarded a premium in 1910 out of funds administered by any other body shall not be eligible for a premium under

this scheme. 16. (L) Boars which were awarded first year premiums in 1910 will be

inspected by the Department at places and on dates of which the owners will be duly advised by the Department. (2.) Owners of such boars failing to produce their animals for inspection

on the date selected will not have their cases re-considered.

(3.) The Department will furnish the County Committee as soon as practicable with a list of boars which have been passed under this clause

as eligible for premiums in 1911. (4.) The County Committee shall then proceed to select applicants for premiums for young boars. In making such selection regard shall be had

to the needs of the various districts in the county, provided that no two boars shall be located in the county within three miles of each other. (5.) A boar provisionally selected for a premium under this clause must stand for service at the same place as in 1910, and unless in exceptional

circumstances approved by the Department, the owner will not be allowed

to change the premium to a yearling boar. 17. (1.) The County Committee shall, by means of advertisements in the local papers or by posters, invite applications from persons who, if selected, are prepared to keep premium boars in districts not already provided for under Clause 16 of this scheme. Such applications must be made

on forms to be obtained from the Secretary.

(2.) As soon as a selected applicant has procured a boar which has been provisionally passed for a premium he should notify the Secretary on a form to be obtained from the latter. The Secretary shall thereupon advise the Department on the prescribed form of the particulars as to the location, &c., of the boar, and obtain the sanction, in writing, of the Department with the least possible delay.

18. The provisional section of boars for premiums will be made by the Department alone at the principal spring shows and at other places to be fixed by the Department, but no inspection for the purpose of this scheme will be made after the 30th June, 1911, save in exceptional circumstances.

19. The Department, through the County Committee, will as far as practicable assist intending purchasers to secure suitable boars for the purposes of this scheme.

20. The service season for a premium boar shall not commence until the owner of the boar has notified the Secretary on the form mentioned in Clause 17 (2) that he has procured a boar. The service season for premium boars shell close finally on 31st December, 1911.

21. The Secretary shall supply the owner of each premium boar under this scheme with posters, which the said owner must undertake to dis-

tribute in the district in which the boar is to serve. 22. Each first year premium boar must serve not less than 30 sows, and each second year boar not less than 40 sows, other than those that are the property of the owner of the boar. The service fee, inclusive of all charges for this number of sows, shall not exceed 1s. for each sow. After the minimum number of sows has been served, the owner of the boar may fix such fee as he may desire.

23. The County Committee, with the approval of the Department, may make such regulations as they think necessary with regard-

(1.) to the breed or breeds of boars to be selected (see clause 9),

(2.) to the number of premium boars which any one applicant may possess (provided no person shall possess two premium boars unless located

at least three miles from each other), (3.) to the place in which a premium boar shall remain during the season for service (see clause 16 (5) ).

(4.) to requiring the owner of a premium boar not to keep any other boar on the farm on which such premium boar is located.

(5.) to the penalties to be imposed upon the owner of a premium boar who fails to take proper care of the animal,

(6.) to the number of sows which any one farmer may send to a promium boar under this scheme,

(7.) to requiring owners of premium boars to exhibit their animals at one of the shows subsidised by the County Committee, (8.) to requiring owners of premium boars to retain their animals in

the district until 1st September, 1911, and

(9.) to any other matter under this scheme. All regulations so made shall take effect in the county as if incorporated in this scheme.

24. Each sow shall be the property of a farmer resident in the county, the aggregate tenement valuation of whose holding, or holdings, wherever situated, and for which he is rated, does not exceed the limit fixed by the County Committee.

Herds, artisans, and bong fide agricultural labourers may obtain service for their sows on the same terms as a farmer.

25. The term "farmer" is to be understood to mean a person who derives his means of living mainly from farming, 26. The owner or owners of a premium boar shall not, before the stipulated number of sows has been served, reserve the use of the boar for sows the property of any individual, or of the members of any society.

Subject to the provisions of Clause 29, sows must be served by a premium boar in the order in which they are presented. 27. The Department reserve the right to brand or mark premium boars,

and to inspect them from time to time. 28. In the event of infringement of or non-compliance with any regulation of this scheme or of a boar being unable, from any cause, to complete the prescribed number of services, the Department reserve the right to withhold the premium, or any part of it, or in any other way to deal

specially with the case, as the circumstances may require. 29. The owner of a premium boar has the right to refuse the use of his hoar in any case where he is satisfied that the service would be prejudicial to the animal. The reason for such refusal must, however, be communicated to the County Committee immediately on the refusal of the appli-

cation. 30. (1.) Not earlier than 1st August, 1911, and not later than 15th January, 1912, the owner of each premium boar shall forward to the Secretary on the prescribed form a return of the names, addresses, and valua-

tions of the persons whose sows have been served by the premium boar -together with dates of such services-at the fee named in Clause 22. (2.) The Secretary shall examine and check all such forms, and when certified by him as correct shall forward them to the Department.

(3.) As soon thereafter as the Department are satisfied as to the fulfilment of the conditions of this scheme, the Secretary will be notified that payment of the premium, or part of the premium, payable under this scheme may be made to the owner of the boar. (4.) Any premium not applied for on or before the 15th January, 1912,

shall be considered as having lapsed.

31. In all cases of dispute in matters connected with this scheme the decision of the Department shall be final,

Scheme No. 4.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

LOANS FOR THE PURCHASE OF STALLIONS.

1911.

 Applications for loans for the purchase of Stallions must be made on the prescribed form (A. 37)—direct to the Department. 2. No application for a losa for the purchase of a Stallion will be con-

sidered if coming from a locality in which, in the opinion of the Department, there is already a sufficient number of approved Stallions for the purpose of their scheme

No loans will be made save for the purchase of Stallions accepted by the Department under the Horse-breeding scheme for 1911.

The Department reserve the right to refuse any application for a loan without assigning any reason for such refusal. 3. The individual or association (hereinafter referred to as the applicant)

suplying for a loan must be approved by the Department. 4. The purchase price of the Stallion must be approved by the

Department. 5. The applicant must pay to the Department (1) one-third of the approved purchase price, (2) the amount of the stamp duty, and (3) the

premium for the insurance of the Stallion at the full amount of the approved purchase price—the payment to the Department of this premium must be secured under conditions similar to those provided for the repayment of principal and interest. (See 7 and 8.) 6. On receipt by the Department of (1) one-third of the agreed on purchase money, (2) the necessary stamp duty, (3) the premium for insurance,

and (4) a form of undertaking to have the necessary bond duly completed without delay, the Department will pay to the vendor the full amount of the agreed on purchase price, and will intimate to him that possession of the Stallion may be given up to the applicant.

If the vendor, before being paid by the Department, gives up possession of the Stallion, the Department will hold themselves free of any liability to the vendor.

7. As soon thereafter as possible the applicant, with two or more approved solvent sureties, shall enter into a bond to repay the Department the amount which will be advanced by them-viz., two-thirds of the purchase-money-in five equal annual instalments, payable on the 1st November in each year, together with interest at the rate of 24 per cent. on the outstanding balance. The first instalment shall be payable on the 1st November next succeeding the date of payment by the Department of the full purchase price to the vendor.

8. In the case of an association repayment must be guaranteed by the Committee of the association, or in such other manner as the Department

may require. 9. The Stallion shall remain the property of the Department until all instalments or arrears of principal and interest are paid off, and shall not be disposed of without the consent in writing of the Department, for five vears.

10. The applicant must offer the Stallion each year for registration, must undertake to conform at all times to the regulations of the Department's scheme for the time heing for encouraging improvement in the herods of horses, and, during the centinames of the lean, must allow the stallion to serve nominated masses are seened \$25 per mass.
11. Nominated masses the property of the members of an association

purchasing a Stallion under this scheme shall not take priority of service over nominated mares owned by non-members.

As soon, however, as the number of nominated mares required by the scheme have heen served, the service of the Stallion may be retained exclusively for the use of the members of such association.

12. The applicant must observe the following conditions:—

(1). In the event of the horse becoming ill or lame, he must without

delay give notice in writing or by telegram to the Department. Like notice must be given—

(a) If the horse meets with any accident or injury, and
(b) If the horse dies. In the latter event he must furnish at his own

expense a certificate from a Veterinary Surgeon.

(2) He must provide proper accommodation for the Stallion, and

care it in a proper manner to the satisfaction of the Department.

(3) He must procure at his own expense the services of a Veterinary

Surgeon when necessary.

shall he final.

13. The Department shall have the right to inspect the Stallion at any time, and to remove it at any time, if it is found, in the opinion of the Department, that it is not heing properly cared, or if an instalment of the principal and interest is in arrear for more than four weeks.
14. Should the Department grant a special subsidy in respect of the

14. Should the Department grant a special subsidy in respect of the Stallion such subsidy shall not be paid to the individual or association in possession of the Stallion, but shall be credited, after the close of the

season, towards the repayment of the loan.

15. The decision of the Department in all matters relating to these loans

Forms of application can be had from the Department.

# Scheme No. 5. DEPARTMENT OF AGRICULTURE AND TECHNICAD TNSTRUCTION FOR IRELAND.

## LOANS FOR THE PURCHASE OF BULLS.

### 1911.

 Applications for loans for the purchase of Bulls should be made—on the prescribed form (A. 38)—direct to the Department before 1st March,

1911.
2. No application for a loan for the purchase of a Bull will be considered if coming from a locality in which, in the opinion of the Department, there is already a sufficient number of pure bred Bulls for the purpose of their scheme. No loan will be granted save for the purchase of a pure bred yearing Bull passed by the Department as satisbake or a permitten yearing Bull passed by the Department as satisbake or a permitten the purchase of a pure bred yearing Bull passed by the Department as satisbake or a permitten permitten by the purchase of the purchase of the purchase of a purchase of the purchase of the purchase of a purchase of the purchase of the purchase of the purchase of a purchase of the purchase of a purchase of the purchase of the purchase of a purchase of the purchase of a purchase of the purchase of a purchase of a purchase of the purchase of a purchase of the purchase of a purchase of a purchase of a purchase of the purchase of a purcha

3. The purchase price of the Bull must be approved by the Department.
4. The person applying for a loen under this schemo—bereinatter referred to as "the applicant"—must purchase through the Department, who cannot undertake to consider applications for loans in respect of animals purchased without their knowledge, at shows, sales, or from

private individuals. The Department will, as far as possible, endeavour to

supply a Bull at a price fixed by him.

supply a bunt at a price tasted by fine.

5. Before taking possession of the Bull the applicant will be required to pay to the Department's representative—(1) one-third of the approved purchase price, (2) the stamp duty, and (3) the charge for insurance (see Clause 9). Further, he must sign a form of undertaking to have the

necessary form of guarantee for repayment duly signed and completed.

6. As soon thereafter as possible, the applicant and two approved solvents amounts which will be advanced by them; the very the Depayment in the amount which will be advanced by them; the very cut amount shift in the complete of the property of the

on the outstanding balance.

7. In the case of an association the person in whose charge the Bull is to be placed must, with two other approved members of the association in their capacity of private individuals, guarantee repayment of the losa. 8. The Bull shall not be disposed of without the connect of the Department having been previously obtained in writing. The animal shall remain the property of the Department until all instalments of principals and in.

9. The applicant must insure the Bull with the Department for the full

amount of the purchase price. The fee for insurance against death shall be 5 per cent. on the full amount of the purchase price, and shall be paid

to the Department.

10. The Department will insure the Bull with an insurance company for twelve months only from the date of payment of the insurance fee by the applicant. In the payment of the insurance fee by the species of the payment of the insurance fee by the species of the payment o

to date of death of the Bull.

It will be optional with the applicant to insure the Bull for a second year.

11. The applicant must observe the following conditions:-

(1.) In the event of the Bull getting ill or lame he must, without delay, give notice in writing or by telegram to the Department. Like notice must also be given (a) in the event of any accident or injury occurring to the Bull, and (b) in case of the death of the Bull.

(2.) He must take all reasonable precautions to prevent the Bull from coming into contact with any animal suffering from disease.
(3.) He must provide proper accommodation for the Bull and care

(3.) He must provide proper accommodation for the Buil and care it in a proper manner, to the satisfaction of the Department.
(4.) He must procure at his own expense a syringe and disinfecting materials and use same for the washing of his Bull after each service.

in accordance with the instructions given in the Department's leaflet No. 13 on contagious abortion in Cows.

(5.) He must procure at his own expense the services of a Veterinary Surgeon when necessary.

(6.) In the case of the death of the Bull he must forward a certificate from a Veterinary Surgeon or such other evidence as to the cause or fact of death as the Department may require.

12. The granting of a loan does not imply that a premium will be awarded

in respect of the Bull

Should the Bull be awarded a premium (1) the person in whose favour the loan is being granted must conform to the regulations of the Department's scheme for the improvement of the breecks of cattle, or any modifications therein made, with the approval of the Department, by the County Committee; and (2) the amount of such premium shall be paid to virgillations, after the provisions of the general eighness have been compiled with places, after the provisions of the general eighness have been compiled 13. The Department shall bave the right

(a) to inspect the Bull at any time, and to remove it at any time, if it is found, in the opinion of the Department, that it is not being properly cared, or in the event of an instalment of principal and interest being in arrear for more than four weeks;

(b) to brand or mark the Bull;

(c) to apply the tuberculin test, at their own expense, to any Bull purchased under this scheme.
 14. The decision of the Department in all matters relating to these loans

shall be final.

Forms of application can be had from the Department.

Scheme No. 6.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR TRELAND.

SUBSIDIES TO AGRICULTURAL AND INDUSTRIAL SOCIETIES, ETC.

## 1910-1911.

1. County Committees of Agriculture may, subject to the approval of the Department and to the conditions of this scheme, grant subsidies to specieties established for the purpose of—

es cetablished for the purpose of—

(a) Holding Agricultural, Poulitry, Horticultural, and Farm Produce
Shows: Industrial Shows or Exhibitions and Feisseams;
Skilled Labour Competitions, Implement Trials, Ploughing

Matches, etc.

Provided, however, that the grant to any one Ploughing

in 1910, viz. :-

Match shall not exceed £5, irrespective of the number of competitions at such Match.

(b) Obtaining for its members Analyses of Manures and Feeding

Stuffs, Seed Tests, etc.

2. (1.) A show society, or other body, desiring to obtain a grant under this scheme must make application on the prescribed form not later than lat February, 1911, to the County Committee, and must at the same time furnish the following particulars in resucció cach show held by the society

(a) A balance sheet duly certified to have been audited and found correct by two persons not being members of the committee of the show society or other body concerned, and setting forth in detail the financial position of the society after all liabilities

bave been discharged, and also
(b) If required, a list certified by the Secretary of the show society or other body, setting forth the amounts actually collected

in local subscriptions from private individuals in 1910.

Any Society or other body which fails to furnish these particulars, or such jurker information as the County Committee or the Department may require shall not be elimble to receive a subside.

(2.) It shall be the duty of the Secretary to the County Committee, by means of advertisements or otherwise, to invite applications in accordance with the provisions of this scheme, from all accidetes or other bodies corecract, and to submit same with the necessary particulars to the County Committee as soon as possible, but not later than at a meeting of the

Committee held in the month of February, 1911.

(3.) Not later than 1st March, 1911, the County Committee shall forward to the Department the foregoing documents together with their recommendations as to the distribution of funds available under this scheme.

3. In allocating the funds available under this scheme, County Committees should consider the claims of the various Shows held in the county and the special requirements of particular districts.

The County Committee in allocating a grant to any particular show shall take into consideration:-

- (1.) The amounts actually collected in local subscriptions from private individuals in 1909 and 1910.
  - (2.) The total value of prizes awarded in 1910, and the cost of administration. (3.) The regard paid by the society to the furtherance of the De-

partment's live stock, poultry, and other county schemes. (4.) The amount set aside for classes confined to small farmers.

4. The prize schedule for 1911 must, prior to publication, be submitted through the County Committee to the Department for approval in writing. The Department will not consider any schedule which has not previously

received the approval of the County Committee. 5. The amount of the joint contribution from the County Committee and

the Department must be acknowledged in the prize schedule. 6. In the case of live stock shows, other than shows confined to horses, provision must be made in the sebedule of prizes for the inclusion of classes for sheep and swine and for poultry of the breeds subsidised by the County

Committee. 7. Each society receiving a subsidy under this scheme shall, if required, afford all reasonable facilities for the inspection of their books by the Department, and shall admit the Department's Inspectors to the judges' rings during all adjudications on the day of the show.

8. Grants from the joint fund available under this scheme may be given to new show societies, provided the County Committee and the Department

are assured:--(1.) That there is need for such new societies in the county;

(2.) That adequate local support is forthcoming; and (3.) That the rules and financial proposals of the society are deemed

satisfactory. 9. The cost of employing judges must be defrayed by show societies out of their own funds. The Department cannot undertake to supply the ser-

vices of a judge or demonstrator for any show or competition. If the County Committee approve, one or more of the Instructors employed under county schemes may be permitted, for the purpose of giving

demonstrations, to attend a show subsidised by a County Committee. 10. (1:) Immediately after the show or competition the Secretary of the society or other body shall furnish to the County Committee a certificate as to the total amount actually awarded in prizes, exclusive of cups and presentation prizes (the value of which should be stated separately), and

the County Committee shall forward such certificate to the Department. (2.) As soon as the Department are satisfied as to the fulfilment of the conditions of this scheme, the County Committee will be notified that

payment may be made to the show society or other body of the full amount of the subsidy or part of the subsidy as the case may be

(3.) In the event of the total sum actually awarded in prizes at any show

or competition being less than the sum originally voted by the County Committee, the show society or other body managing the show or competition shall not be entitled to receive payment from the joint fund of any sum exceeding the amount actually awarded in prizes, exclusive of cups and presentation prizes.

11. Non-compliance with any of the foregoing regulations will render a show society or other body ineligible for a grant under this scheme, and will entail the cancellation of any subsidy proposed to be given by the

County Committee to such show society or other body. 12. In all cases of dispute in matters connected with this scheme the decision of the Department shall be final.

The Department recommend that each Agricultural or other Show Society receiving a subsidy under this Scheme should invite the County Committee to nominate one or more representatives to act on the Show Committee.

Scheme No. 7.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

PRIZES FOR COTTAGES AND SMALL FARMS,

 In 1911 County Committees of Agriculture may, subject to the Department's approval, offer prizes in one or both of the following sections, subject to the provisions of this scheme, viz. —A. Cottages with cardens.

subject to the provisions of this scheme, viz.:—A. Cottages with gardens, B. Small farms. In Section A. County Committees may offer prizes in any one of the following ways:—(1) wholly in cash, (2) wholly in fruit trees and seeds.

(3) partly in cash and partly in fruit trees and seeds. A County Committee may delegate the working of this scheme to a society eligible for a grant under the scheme of subsidies to agricultural and industrial societies.

Competition in Section A. shall be confined to bona-fide cottagers as defined by the County Committee. Cottagers on whose holdings demon-

stration plots in connection with the scheme of instruction in horticulture are situated, shall, however, be ineligible to compete. Only bona-file farmers who derive their means of living mainly from farming, who reside on their farms and work the farms themselves, will be eligible to compete in Section B. At least one-fourth of the arable land

of the entire holding of each competitor in this section must be tillage, first year's grass or meadow being regarded as tillage.

Teachers in National or other primary schools are inslightle to compute this solution that solutions of this adeques the county may be divided, into 3. For the purposes of this adeques the county may be divided, into 3. For the purposes and other which separate competitions will be held.

4. Particulars as to the sections adopted, the number of districts or circuits into which the county is divided, the number of classes in each of the county of the county committee for each data, and the number and value friend by the County Committee for each data, and the number and

mitted to the Department on the prescribed form for approval.

5. Entries must be made on special forms to be obtained from the Socretary of the County Committee. Each competition must forward one of these forms, accurately filled up in every detail, so as to reach the Socretary of the County Committee on or before a date to be fixed by the

retary of the County Committee on or before a date to be fixed by the County Committee, but in no case later than the 20th May, 1911. No holding will be inspected in respect of which the owner fails to fill in an entry form.

It shall be the duty of the County Committee to examine these entry forms and to satisfy themselves, as far as practicable, as to the eligibility of each entrant before the list of competitors is supplied to the judge. 6. In cases of insufficient competition, want of merit, or in which the conditions of this scheme have not been strictly adhered to, the prizes may

tounitions of this stream have not been strictly adhered to, the prizes may be withheld in whole or in part.

7. The following points shall be taken into consideration by the judge in making his awards:—

### COTTAGE SECTION.

(a.) Cleanliness, and general order of cottage and premises.
(b.) Cultivation of the garden, freedom from weeds, well-kept fences and walks.

- (c.) Variety of vegetables, fruits and flowers.
  (d.) Arrangement of manure heap.
- (c.) General management and care of live stock, particularly pigs and poultry, special attention to be given to quality and housing. (f.) Management of bees.

#### SMALL FARM SECTION.

- (a.) Cleanliness, order and concerny in the dwelling-house and offices (including poultry houses).
- (b.) Judicious character of cropping, efficiency of cultivation, arrangement of manure beap, and provision for collecting liquid manure.
- (c.) Cultivation of the garden, variety of vegetables and fruit trees.
  (d.) General condition of land under grass, care of fences, gates, water
- courses, &c.

  (a.) Judicious planting of shelter belts.
- (f.) Freedom from weeds, especially grass land, stack-yards and headlands.
- (g.) Cultivation of headlands.
  (h.) Management and care of live stock and poultry (quality to be particularly considered).
- (i.) Special crofit will be given if simple accounts of receipt and expenditure in connection with any helding entered for competition (or with any helding entered for competition (or with any branch of the work on the helding, such as the cost of feeding cows or pigs, of rearing calves, of keeping poultry, etc.) are kept and exhibited to the judge.
- 8. The Department will supply, free of charge to the County Committee,
- the services of an Instructor to act as judge under this scheme.

  9. The judge's report shall deal with such matters in connection with
  the competition as the Department and the County Committee may decide.

  10. The inspection of cottages or small holdings entered for competition
- under this scheme will be made in the months of June, July, or August.

  11. The Committee shall submit the judge's report, with list of awards, for consideration by the Department, who, as soon as they are satisfied as to the fulfilment of the conditions of this scheme, will notify the Serietary of the County Committee that the prizes or reduced prizes may be
- paid. The awards will not be final until the sanction of the Department has been conveyed in writing to the Secretary. 12. The County Committee shall furnish to the Department such detailed statements of expenditure under this scheme as may be required from time
- to time.

  13. In all matters of dispute relating to this scheme the decision of the Department shall be final.

Scheme No. 8.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

SCHEME FOR ENCOURAGING IMPROVEMENT IN THE FLAX-GROWING INDUSTRY.

## 1910-11.

The following programme has been adopted by the Department for encouraging improvement in the flax-growing industry during the season 1910-11.

### I.—FIELD EXPERIMENTS.

Variety tests and manurial experiments will be continued. The object of these experiments is to ascertain the relative value of various varieties

of flax seed and the influence of certain manures on the yield and quality of the flax crop. Experiments on seed selection may also be undertaken. A report on the experiments carried out in 1999 will be published in the Department's Journal, and will be distributed in leaflet form.

### II.—Collection of Statistics.

Statistics with reference to the flax crop will be again collected through scutchmill owners and the managers of co-operative flax societies.

### III.—FORMATION OF FLAX SOCIETIES.

III.—FORMATION OF FLAX SOCIETIES.

F[The Department, subject to conditions to be prescribed by them, are prepared in a limited number of cases to assist farmers in establishing co-

operative flax societies by paying a portion of the salary of an approved manager for a period not exceeding three years. Applications for essistance of this nature should be made to the Secretary

# of the Department.

IV.—PRIZES FOR GROWERS, &C., OF FLAX.

County Committees of Agriculture in the flax growing counties may adopt either or both of the following sections:—

### (A.) Prizes for Scutched flax.

(B.) Prizes for flax on foot.

# SECTION A.

For the purpose of this section a county may be divided into districts, in each of which a show of soutched flax may be beld, at which it is suggested the following prizes be offered:—

Third prize, . . . £1

 $\mbox{(B.)} \mbox{--Scutchers}.$  Scutchers employed in the mill where the first prize lots were scutched  $\mbox{:--}$ 

# Soutchers employed in mills where the second prize lots were soutched: $\pm$ 1.

(c.)—Other employees.

For other persons employed in the mill where the first prize lots were

soutched:---

Similar employees in mills where the second prize lots were scutched:—
£1.

### (p.)-Mill-owners.

and who grow at least half a statute acre of flax or sow at least 2 bag of seed.

This class may be omitted if the County Committee so desire.

Owners of mills in which the first prize lots were scutched:— £2.

# Owners of mills in which the second prize lots were soutched:—

Section B.

For the purpose of this section the county may be divided into districts, in each of which prizes for flax on foot may be offered, e.g. :—

(a.) For grovers the valuation of whose holding does not exceed £10.

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(b.) For growers the valuation of whose holding exceeds £10 but does not exceed £25, and who grow at least one statute acre of flax or sow at least 1 bag of seed.

(c.) For growers the valuation of whose holding exceeds £25 but does not exceed £50, and who grow at least two statute acres of flax or sow

at least 1 bag of seed. (d.) For growers the valuation of whose holding exceeds £50, and who

grow at least three statute acres of flax or sow at least 12 bags of seed. N.B.—The limits of valuation in the foregoing classes are not prescribed; they are merely inserted as an indication to County Committees to encourage the small grower.

The County Committee may require growers entering flax for com-

petition under this section to pay an entry fee. When judging growing crops the judge shall take into consideration:-(a<sub>\*</sub>) Freedom of crop from weeds;

(b.) Uniformity of crop;

(c.) Length and quality of crop.

GENERAL REGULATIONS.

 A County Committee adopting this scheme should appoint from among their own members a special sub-committee for flax, which must be restricted to six members, who should as far as possible be experienced fisx growers or scutchmill owners; and this sub-committee should be given full authority to administer the county scheme when sanctioned in writing by the Department.

2. The sub-committee shall be responsible for organising shows under section A., and for making all arrangements in connection with sections A. and B. ; but no payments under this scheme shall be authorised, except

by the County Committee.

3. The County Committee shall, by means of advertisements in the local papers and by posters, invite applications on special forms from persons in the county desirous of competing for the prizes offered under this scheme. Copies of these posters must be forwarded to the Department.

4. Not less than six weeks before the date of the first show, when section A. has been adopted, and not later than 31st March, 1911, in the case of section B., the County Committee must submit, for the approval of the Department, on the form provided for the purpose, a complete statement

showing :--In regard to section A .- (1) the classes to be provided at each show; (2) the quantity of flax to be exhibited by one person in each class, which should not be less than 16 stones; (3) the number and value of the prizes to be offered; (4) the place, suggested date, and hour of each show: (5) the instructions to exhibitors, together with such conditions of award, in

addition to the compulsory provisions in the following clauses as the Committee may consider desirable. In regard to section B-(1) the number of districts into which it is proposed to divide the county; (2) the limits of valuation in each class: (3)

the number and value of prizes in each class; (4) the amount of the entry fee, if any, to be charged. 5. All growers of flax shall be eligible to compete for prizes in sections

A and B, subject to the regulations of this scheme. 6. Under neither section shall a grower be paid more than one prize during the season, and under section A no individual can receive a prize

both as a grower and as a mill-owner.

7. If, in the opinion of the judge, the flax exhibited under section A, or the crop inspected under section B does not show sufficient merit, the prizes must be withheld.

8. If it be discovered that any fraud, deception, or dishonest practice has been committed, either in connection with the preparation or ownership of the scutched flax or growing flax, or in any representation regarding exhibits of flax—seutched or growing—which may have affected, or have heen intended to affect, the decision of the judge or judges, the offending person shall be disqualified, and shall be debarred from obtaining any tuture henefits under the Department's softens. He shall also forfeit any claim in respect of prizes awarded under this sobreme. The Department reserve the right to publish the names of such necessors if deemed excellent.

No action shall be taken by the County Committee towards putting any portion of this scheme into operation until the sanction of the Department, the Committee's proposals has been obtained, in writing. The scheme, when sanctioned by the Department, must be considered as final for the veer.

for the year.

10. The County Committee shall, subject to the approval of the Department, appoint a competent judge or judges under this scheme. The person appointed under section A must not be a resident of the county in which he

is to act.

The person appointed under section B may act as judge in the county in which he resides, but not in the district, as defined in this scheme, in

which his residence is situated.

11. (1) Not later than six days after the holding of each show the Secretary of the County Committee shall submit to the Department for manner and address of each of the price-winners under section A, and the amount of the price to which each winner is entitled. (2) Similar returns a continuous contraction of the price to which each winner is entitled. (3) The mean with office of the price to which each winner is entitled. (3) The mean within one week after the work of pluging has terminated. (3) The

swards will not be final until the sanction of the Department has been conveyed in writing to the Secretary of the County Committee. 12. The Secretary of the County Committee shall keep a separate account

of expenditure in connection with each section of this scheme, and shall

furnish same to the Department when required.

13. Subject to the foregoing regulations being complied with, the Department will be prepared to refund County Committees 50 per cent. of all

authorised expenditure under this scheme.

14. The decision of the Department in all matters of dispute in connection with this scheme shall be final.

Scheme No. 9, DEPARTMENT OF AGRICULTURE AND TECHNICAL

# INSTRUCTION FOR IRELAND. INSTRUCTION IN AGRICULTURE, 1910-11.

1. The Department are prepared to approve the appointment of at least one Lastractor in Agriculture for each county in Ireland, provided the County of the Person or persons qualified for the position. In the case prepared prepared personal personal country of the position. In the case of the position of the positi

The Department will, as far as possible, assist County Committees in obtaining Instructors by supplying the names of qualified persons.

2. The salary of the Instructor shall not exceed £200 per annum (inclusive of maintenance and hotel expenses), in addition to expenses of becomotion, which includes second or third-lass railway fare as decided by the County Committee, ear hire when necessary, or a beyole allowance not exceeding 2d per mile in lelu thereof. If a motor cycle is used 3d, per mile

exceeding 2d. per mile in lieu thereof. If a motor cycle is used 3d. per mile may he allowed.

3. The employment of the Instructor under this scheme shall not continue beyond the 30th September, 1911, and shall he terminable at any

time previous to that date by the giving of three months' notice in writing on either side.  (1.) It will be the duty of the Instructor, who should take every opportunity of discussing with farmers matters affecting their interests—

(e) to conduct such field and live stock experiments and demonstrations are may be approved by the Department, including the selection of suitable land, the supervision of the sevenia, including the manures, and of the levening of the plots for form weeds, the weighing of the produces, the tabulation of the figures and the proparation of reports on the results;

(b) to deliver lectures on agricultural subjects, such as soils, manures, seeds, pastures, crops, and their cultivation, and the breeding, feeding, and management of live stock, especially of dairy eatitle.

(c) to visit farms;

(d) to reply to letters from farmers seeking information;
(e) to make known as widely as possible the facilities provided by
the Department for the training of young men who intend to become

farmers and, especially, to endeavour to secure the attendance of farmers' sons at Winter Agricultural Classes;

(f) to advise farmers (i.) how they can take advantage of the Department's Seed Testing Station, (ii.) as to the planting of forest trees for shelter and ornament, (iii.) how they can best avail themselves of all approved county schemes, and (iv.) how they may take advantage of agricultural co-operation:

(g) to act as official sampler under the Fertilisers and Feeding Staffs Act, to make known the provisions of this Act, of the Destructive Insects and Pests Acts, and of the Weeds and Agricultural Seeds (Ireland) Act;

(h) to furnish to the County Committee and to the Department, as may be required, reports on the progress of his work and on matters relating to the agricultural industry of the county; and

(i) generally to give his whole time to the work and to do all in his power to further the interests of agriculture in the county.

(2) Tik Instructor may also be required (e) to assist in the teaching of Winter agricultural classes, (b) to assist in carrying out the provisions of the scheme for the registration of dairy sattle, by the weighing and testing of milk, &u, and (e) so act as judge in connection with the scheme of prizes for cottages and small farms in a country other than that in which he acts as Instructor.

NOTE.—The employment of the Instructor to teach winter agricultural classes will not relieve him of his other duties under this scheme, and accordingly when he is occupied in teaching for four days in a week the Instructor should deliver at least one lecture in the same week on a day when not engaged in teaching, as well as attend as far as practicable to the other branches of work above mentioned.

If compiled less than four days a west in teaching such classes, the number of lectures and demonstrations abould be correspondingly increased.

5. The Instructor shall, so far as the moneys allocated by the County Committee will permit, make arrangements to have experimental and elementation plots in each section or circuit into which the county may be demonstration plots in each section or circuit into which the county may be included and classes of and turning the summer mental meetings of fearmer which the county is a summer contained to the county of the county of

During the winter months—viz., from the beginning of October to the end of February—the County Committee should arrange for a series of extress by the Instructor in each circuit. At least one lecture in each circuit should deal with the results of the field experiments carried out in the previous sesson.

For the purposes of this scheme County Committees will find it convenient to divide the county into a number of sections or circuits, in which the Instructor should work in turn.

. When is it intended that a lecture should be given in a particular locality,

the County Committee should appoint a small local committee, who should undertake to secure the necessary accommodation for the purpose and to arrange for the lighting, heating, &c., of the room in which the lecture is to be delivered. No work of this nature should be undertaken by the Instructor.

The County Committee alone are responsible for seeing that the Instructor's time is fully and usefully employed, and that he pays due regard to the performance of the duties for which he is appointed. With this end in view, the County Committee should take such steps as may seem to them most effective to make known to farmers in the county that an Instructor is available to afford advice on all matters affecting their in-

The County Committee shall obtain the Department's approval in writing for all payments in respect of materials for experiments and demonstrations. and articles of equipment required by the Instructor, and shall keep a separate account of all expenditure under this scheme. Detailed statements of such expenditure as may from time to time be required shall be furnished to the Department by the County Committee.

7. It will be the duty of the Secretary of the County Committee to furnish such returns in connection with this scheme as the Department may require; to forward to the Department copies of all advertisements, posters, or handbills issued by the Committee; and to keep an inventory, and be responsible for the custody, of all equipment provided for the purposes of

this scheme. 8. No action shall be taken by the County Committee towards putting this scheme, or any part thereof, into operation until the sanction of the

Department has been obtained in writing. 9. In all matters of dispute relating to this scheme the decision of the Department shall be final.

Scheme No. 10.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

# WINTER AGRICULTURAL CLASSES,

1910-11. 1. The County Committee may employ as teacher for agricultural classes (1) for not more than four days per week, the Itinerant Instructor in Agriculture, if approved by the Department, or (2) an approved teacher

or assistant Instructor who would devote his whole time to the classes. In the event of the Itinerant Instructor being employed as teacher, he shall devote the remaining days of the week to duties in connection with the

scheme of itinerant instruction in agriculture.

2. (1.) The aim of the instruction is to impart such knowledge as is capable of direct practical application to farm work. The subjects taught will be as follows:-Soils, tillages, manures (natural and artificial), seeds, grasses, weeds, farm pests, treatment of pasture, cropping, management of live stock (including winter dairying), valuation of manures and feeding stuffs, simple farm account keeping, mensuration, elementary chain surveying, and elementary science explanatory of the principles underlying ordinary farm practice. As far as possible the lessons should be illustrated by practical demonstrations.

At each centre special attention will be devoted to farm calculations in connection with the cost of growing crops or raising stock, with direct

reference to the practice prevailing in the district. (2.) The County Committee may arrange for a few outdoor demonstrations in the planting and after treatment of fruit trees, to be given to the students by the County Instructor in Horticulture, but no lectures on

borticulture shall be given. 3. (1.) In order to bring the classes within the reach of as many young men as possible, it will be necessary for the teacher or assistant instructor in each county to give instruction at two or three centres, at each of which he shall attend for three or two days weekly, during a period of about sixteen weeks, from November to March. Unless in exceptional circumstances. centres at which agricultural classes have been held previously, shall not be

selected under this scheme. (2.) In fixing the days of the week on which the classes are to be beld at any centre, the County Committee should have regard to the dates of fairs and

markets, as well as to any local circumstance which might interfere with the attendance of students on certain days.

4. (1.) The County Committee shall, by means of advertisements in the local newspapers and by posters and leaflets, invite applications for admission to the classes. Copies of these posters and leaflets must be forwarded to the Department as soon as issued. The County Committee may make such regulations as they think neces-

sary with regard to-

(a.) the maximum age of students to be admitted to the classes; and

(b.) the admission to classes of students who bave previously attended similar classes, provided that admission to an elementary class shall not be approved in the case of any student who has attended two previous classes.

(2.) Applications for admission to the classes must be made to the Secretary of the County Committee, on forms provided by him for the purpose.

(3.) Admission to the classes will be conditional on the applicants satisfying the Department that their general education is sufficient to enable them to benefit by the instruction given.

(4.) The classes shall be beld in the morning and afternoon, and the hours of attendance shall be arranged to suit, as far as possible, the convenience

of students who travel by rail. Instruction in subjects mentioned in Clause 2 (1) of this scheme shall be given for at least four hours each day. (5.) The classes shall be confined to young men over sixteen years of age,

who are actually engaged in farm work in the county, and not more than twenty-four students shall be admitted at any centre. If the number of students eligible for admission at a centre is less than ten, the class proposed for that centre shall not be held. Provided, bowever, that, subject to the approval of the Department, the County Committee, if a sufficient number of students over sixteen years of age is not available, may, if they think fit, admit young men over fifteen years of age.

(6.) No applicant shall be permitted to join a class after the lapse of two

weeks from the date of the first meeting of the class.

(7.) No fee shall be charged for the course. Students must provide, at their own expense, note-books and other stationery, as directed by the

5. Students who reside beyond a radius of three statute miles from the class centre will, at the end of the course, be allowed the cost of third-class milway tickets, or one penny for each mile by which the double journey by road between their homes and their class centres exceeds six miles, provided that their attendance and progress are regarded by the Department as satisfactory. No student will be regarded as having attended satisfactorily who shall not have been present at five-sixths of the meetings of his class

unless his absence shall have been due to illness or other unavoidable cause, Meat meals shall not be provided for students attending the classes,

6. It is recommended that a County Committee adopting this scheme should appoint, from amongst their own members, a special sub-committee of not more than six members who should be empowered to make, in consultation with the Department's Agricultural Inspector, the necessary the Department's approval. In the event of any alteration in the time table of a class being subsequently found desirable, the Department's approval for same should be applied for without delay. No payments under this scheme shall be authorised except by the County Committee. 7. It shall be the duty of the teacher of Agriculture to keep a register of

attendance of the students on the form provided, and in the manner pro-

scribed by the Department.

8. The Secretary of the County Committee shall-(I.) Submit on the prescribed form, for the approval of the Department,

the details of the scheme as proposed for the county; (2.) At the earliest possible date after the opening of the classes, furnish to the Department, on the prescribed form, a return of the students in attendance, showing for each student the mode of travelling to the class

and the daily mileage; (3.) Obtain the Department's approval, in writing, for all payments in connection with this scheme, and keep a separate account of all such

payments; (4.) Keep an inventory, and be responsible for the custody, of all equipment provided for the purposes of this scheme ;

(5.) Immediately after the close of the course, take charge of the equipment provided for the classes, and furnish a list of the same to the Depart-

(6.) Submit to the Department a return of the attendance of the students and of the travelling allowances payable to them under this scheme. 9. In all matters of dispute relating to this scheme the decision of the

Department shall be final. Note.—(1.) If these classes are entered under the Department's revised scheme for the administration of grants to schools other than day secondary

schools, the regulations of that scheme must be strictly observed. (2.) Students of winter agricultural classes whose attendance and pro gress thereat have been satisfactory, receive special preference in connection with the award of agricultural apprenticeships at the Department's Agricultural Stations. Such students are exempt from the entrance examination prescribed for other applicants for these apprenticeships.

# WINTER AGRICULTURAL CLASSES.

### SYLLARUS OF THE COURSE.

Brief sketch of Origin and Formation of soils. Conditions influencing fertility. Soil improvement by draining, liming, &c.

Study of a plant, and the functions of roots, stem and leaves; modification of these organs. Elements of plant food and their relative importance from an agricultural point of view. Conditions affecting the development of plants. Examination of the habits of growth and duration of the principal crops and weeds found on the farm, and the practical application

of this knowledge. Farmyard manure; its storage and application. Organic and artificial manures. Composition, description and identification of artificial manures; their valuation, time and manner of application. Mixing manures.

Special manures. Fertilisers and Feeding Stuffs Act. Rotations. Cultivation, Seeding, Manuring and Harvesting of the

principal farm crops. Forage and catch crops. Study of the commoner insect pests and fungoid diseases of crops. Characteristics, duration and adaptability for various purposes in farm

practice of grasses and clovers. Identification of the different species and varieties.

Identification of farm seeds and the commoner impurities and adulterants. Germination and purity tests, how performed; the inferences to be drawn therefrom. Change of seed. Grass seed mixtures. Weeds and Agricultural Seeds Act.

Care and management of various classes of farm stock, with special reference to breeding, feeding and housing. Principal breeds of live stock, their characteristics.

Constituents of foods; their respective functions and value in animal nutrition. Valuation; manurial value. Description and uses of home grown and purchased feeding stuffs. Impurities and adulterants. Rations

for various classes of farm stock. Methods of using foods, Secretion of milk; composition; conditions influencing the quality and

quantity of the milk yield. Care and treatment of milk for new-milk trade or butter-making. Cresm ripening. Milk records. Respective merits and demerits of the several systems of dairying. Summer and winter

Rules for estimating the areas of the principal geometrical figures met with in chain surveying and farm calculations. Field Book; method of entering measurements; calculation and computation of areas. Practical work with the chain in the field. Plotting from the field book to given scales. Location of drains, &c., on the plans for future reference. Method of keeping a diary, cash book, and a record of credit transactions,

Farm valuations and stocktaking. Balance Sheets, their interpretation. Estimates of the cost of various farm operations, &c.

Scheme No. 11.

### DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

INSTRUCTION IN POULTRY-KEEPING, 1910-11.

1. The Department are prepared to approve of the appointment of at least one Instructor in Poultry-Keeping for each county in Ireland, provided the County Committee can secure the services of a person or persons qualifled for the position. In the case of new appointments no person shall be eligible for the position of Instructor in the county of which he or she is a native or in which he or she resides permanently.

The Department will, as far as possible, assist County Committees in obtaining Instructors by supplying the names of qualified persons. 2. Unless in exceptional circumstances the remuneration of the Instructor

shall not exceed £2 per week, in addition to expenses of locomotion, which include second or third class railway fare, as decided by the County Committee, car hire when necessary, or a bicycle allowance not exceeding 2d. per mile in lieu thereof.

3. The employment of the Instructor under this scheme shall not continue beyond the 30th September, 1911, and is terminable at any time previous to that date by the giving of four weeks' notice in writing on either side.

The appointment of a female Instructor will terminate as a matter of course on her marriage. 4. It will be the duty of the Instructor to deliver courses of lectures on

poultry-keeping; to conduct classes and give practical instruction and demonstrations on the treatment of common diseases, such as gapes, &c. ; on the fattening of fowls, and on the killing, plucking, trussing, and preparation of poultry for market; to visit poultry runs, and give such practical advice as may be desired by poultry-keepers; to enquire into and report upon outbreaks of disease; to inspect the egg distribution and turkey stations referred to in Clauses 10, 13, and 14; to assist selected applicants to procure suitable stock birds; to report to the Department and to the County Committee regarding the progress of his or her work either weekly 18

or otherwise as may be required; and generally to give his or her whole time towards promoting improvement in poultry-keeping in the county. 5. For courses of lectures the county should be divided into circuits, each comprising not less than five centres. The instructor, except in special

5. For courses of feetures the owners, and instructor, except in speaks comparing not less than five comes, and instructor, except in speak cases, should were it each centre weeks in each errorit, and deliver on seak cases, should were also centre during that time. The Instructor should write, either on the day of the electure or on the following day, any of the poultry runs in the neighbourhood, and give such information on poultry-feeering as the riccumstances of the case may suggest.

The County Committee alone are responsible for the selection of centres and the arrangement of lectures and classes. It is desirable, however,

and the arrangement of lectures and classes. It is desirable, however, that the Instructor should be consulted in the matter. 6. It will he the duty of the County Committee to select centres at which

6. It will be the didy of the county commutee to seeke connected and the bectures and classes are seed to contra, who should select the school and arrange for the brirne, lighting, and varming of the room in which the lectures will be delivered. In selecting centres the County Committee should have particular regard to districts in which between the hold previous parts and the work of the way to be a selecting centre as the County Committee should have particular regard to districts in which between classes may not have been held in previous years.

Is will also be the duty of the County Committee to undertake the responsibility of seeing that the Instructor's time is fully and usefully smaloved.

The County Committee shall keep a separate account of all expenditure under this acheme, and shall furnish such datalied statements of this expenditure as may from time to time be required by the Department. The Secretary of the County Committee shall keep an inventory, and be responsible for the custody of all equipment provided.

7. Instead of delivering lectures the Instructor may conduct practical classes, in accordance with the provisions of Scheme No. 12. In no case should lectures be given after the end of the hatching season.

8. Lectures and classes should be arranged, wherever possible, to be given in schoolrooms or other suitable public rooms, and should be held in rural centres only. Towns and the larger villages should be avoided, as experience has shown that the greatest success attends those meetings which are held in the rural parts of a county, especially in districts where the greatest number of those interested in poultry-keeping is to be found. The local committee at each centre should be responsible for appointing a representative chairman for each lecture, and should undertake to have posters and handfills, which will be supplied by the Secretary of the County Committee, effectively displayed and distributed throughout the circuit. Copies of these posters and handbills should be forwarded to the Department at least a week prior to the commencement of each course of instruction. Each lecture should be followed by a discussion, during which persons interested in poultry-keeping will be invited to ask questions relative to the subject. Where a course of lectures has already been given a new syllahus should be presented. 9. In addition to the preliminary inspection of applicants' premises,

the Instructor will be required, after the stations have been reported by his to be fully stocked, to make, before the Silat May, at least two complete inspections of all hen and duck stations, and two inspections of all been and duck stations, and two inspections of all goes and turkey stations in the county. The Instructor shall submit at the end of each week to the County Committee and to the Department on the prescribed form a report on all stations inspected during that were

cribed form a report on all stations inspected during that week.

Distribution of Strings of Eggs of Pure Breeks.

### Hen and Duck Stations.

. 10. In counties where instruction in poultry-keeping has been provided, the Department are prepared to sanction a limited number of greeniums of £5 each being awarded to approved applicants, selected by the County Committee, who distribute during the season at least 80 sittings of eggs.

(twelve eggs to count as a sitting); those who distribute less will be paid in proportion to the number distributed. No maximum number of sittings to be distributed is prescribed, but owners of stations must continue selling eggs at the fixed price until 31st May. The owner may set eggs for his own use, but such sittings will not count towards a premium. Applicants must agree to comply with the following conditions :-

(1.) To keep only one pure breed of hens, or one pure breed of hens and one pure breed of ducks, for station purposes

(2.) To sell or destroy any existing fowl on the premises of which the Instructor or the Department may disapprove, and not to bring on the premises, during the period for the distribution of eggs, fowl of any description without the sanction of the Instructor and of the Depart-

(3,) To dispose of the male birds in use at the station during 1909-10 and to replace these with others unrelated to the stock at the station. (4.) When a premium is claimed for hens alone, to keep not less than thirty or more than sixty birds, approved by the Instructor and

the Department, of the selected breed. If the premium is claimed in respect of hens and ducks, not less than five ducks and twenty-five hens must be kept, or ten ducks and twenty hens, but the total number of birds to be kept at any one station should not exceed sixty. At least one cock or cockerel must be kept for every ten hens or pullets. and one drake for every five or six ducks.

(5.) To replace each year at least one-third of the hens with early hatched pullets.

(6.) To provide proper housing where such does not already exist. The size of run for any flock of birds will require to be at least twenty square yards per bird.

(7.) To feed and care the birds in such a manner as the Instructor and the Department may require, and not to dispose of the birds until

after the 31st May. (8.) To supply, during the season specified in par. (10.) below, sittings of eggs from the station birds to any person in the county at 1s. per dozen (the purchaser to hear the cost of package and carriage), and to replace infertile eggs that are returned within one month from

the date on which they were sent out. In special cases the Department may sanction a higher price than the above, provided the County Committee show sufficient reasons for

so doing (9.) To stamp all eggs given out with a stamp provided for the

purpose by the County Committee. (10.) To enter in a special book provided by the County Committee a daily record of all eggs laid and distributed. This book must be sent

to the Secretary of the County Committee or to the Department when asked for, and in any case must be returned to the Secretary of the County Committee at the end of the distributing season, which will commence on the 1st December, 1910, and terminate on the 31st May, 1911. (See Clause 18.)

(11.) To permit the Instructor and the Department to inspect the birds at any time.

[Noze,-While in exceptional circumstances the Department may allow other pure breeds to be kept on the same premises if they are satisfied that the selected person, houses, runs, birds, etc., are suitable, and may even permit a limited number of cross-bred hens to be kept, provided no male birds are allowed to run with the cross-bred hens, such permission will be given only where the Instructor and the Department are satisfied as to the efficiency of the arrangements made by the station holder to keep all such stock properly isolated from the station

Any infringement of the above rules may entail the cancellation of the premium.

The following breeds of hens and ducks will alone be recognised:—HENS.

# Laying Breeds. White Legherns. Brown Legherns.

Black Minorcas. White Leghorns. Brown Leghor General Purpose Breeds.

Plymouth Rocks (Barred variety recommended). Orpingtons (Buff and White recommended). White Wyandottes. Salmon Faverolles. Sussex. Ducks.

## Indian Runner. Aylesbury. Pekin. Rouen.

12. An additional grant of 50 per cent. of the actual cost, but in no case exceding £2, may be made to selected persons who provide themselves for the purpose of this scheme with portable wooden fowth-nones approved by the Department. This will apply only to persons who see toking up the scheme in 1910–11 for first time. Zo we have a substitute of the portable.
In an existing house, and if a new house is obtained it must be portable.

### GEESE STATIONS.

13. A limited number of premiums of £2 each may be offered to persons selected by the County Committee, and approved by the Department, who will undertake to comply with the following conditions:—
(1.) To keep on the premises only one pen of hirds, viz.—a gander

and three geese of the Embden breed, which have been approved by

(2.) No gander shall be retained for more than six years at any one

station. A gander which has been for six years at one station must be replaced by a bird unrelated to the stock at the station. (3.) To sell not less than 12 sittings of eggs to residents in the county: those who distribute less will be paid in proportion to the number

distributed. No maximum number of sittings to be distributed is prescribed, but owners of station must continue selling eggs at the fixed price until May 31st, 1911. (4) To sell the eggs at 1s. 6d. per sitting—three eggs to count as a

(4.) To sell the eggs at is. 6a. per string—three eggs to don't all sitting—(purchaser to defray the cost of package and carriage where necessary). Each applicant to be restricted to one sitting.
(5.) To provide proper housing where such does not already exist.

The birds to have access to suitable shelter at all times, and to be handfed, when a sufficient amount of natural food is not obtainable, in such a

way as the Instructor and the Department may require.

[Note.—Only those applicants on whose premises there is an adequate supply of water will be approved as keepers of geose stations.]

(6.) To stamp all eggs given out with a stamp provided for the purpose by the County Committee.

(7.) To enter in a special book provided by the County Committee

a daily record of all eggs laid and distributed. This book must be sent to the Secretary of the County Committee or to the Department when asked for, and in any case must be returned to the Secretary of the County Committee at the end of the distributing season, which

of the County Committee at the end of the distributing account will commence on 1st January and terminate on 31st May, 1911. (8.) To permit the Instructor and the Department to inspect the birds at any time.

Nozz.—In special cases the Department may sanction the keeping of a second pen of geese provided the birds are up to premium standard, are effectively isolated from the station birds and are properly housed

[Only one premium, however, will be allowed.]

Any infringement of the above rules may entail the cancellation of the premium.

### TURKEY STATIONS.

14. A limited number of premiums of £2 each may be offered to persons selected by the County Committee and approved by the Department who will undertake to comply with the following conditions:—

(1) To keep one pure bred American Bronze stock turkey cook, approved by the Instruction and the Department, for the service of turkey hear, the property of residents in the county. The supproved turkey hear, the property of residents in the county. The supproved that the behaviour of the turkey cook. If a smaller number is served, the premium will be proportionately reduced, the turkey cook. If a smaller number is served, the premium will be proportionately reduced to the service of the property of the service of the serv

A station holder under the 1909-10 scheme will not be eligible to hold a premium under the 1910-11 scheme unless the hird tepts in 1910-11 is exchanged or a new hird purchased. A premium may be granted for a terkey cook selected in 1909-10, provided the bird is suitable in every respect, and is located at a 1909-10, in other in the same or in another than the same or in another the same or in another than the same of the same or in another than the same of the same or in another than the same of the same

(2.) To provide such housing accommodation and to feed and care the hird in such a manner as the Instructor and the Department may require.

(3) To enter in a special book, provided by the County Committee, a dully record of services. This book must be sent to the Scenary of the County Committee or to the Department when required, and in any case must be returned to the Secretary of the County Committee and the Secretary of the County Committee (a) and the Secretary of the County County

[Note.—In exceptional cases the Department may approve of a second turkey cock heing kept, provided it is up to premium standard; but only one premium will be allowed.]

Any infringement of the above rules may entail the cancellation of the premium.

#### GENERAL.

15. An applicant will be eligible for one premium only in respect of each of the following:—(a) hens or hens and ducks. (b) geess, and (c) turkeys, but the same person may hold premiums for (a), (b) and (c). No premium,

however, will be given for ducks alone.

16. (1.) As soon as the Instructor has been approached by the Department, promoving approach to be saveded has been approved by the Department, promoving the Department of the Department, who may thereupon further inspect the County Committee of the Department, who may thereupon further inspect the County Committee for their the Department, who may thereupon further inspect the County Committee for their final selection.

(2.) The County Committee may make such regulations as they thin. It is regard to requiring applicants for premiums to deposit with each application a sum not exceeding 10s. Such deposit to be refunded if the application in the country of the

cant is not selected by the Committee, or being selected complies with all the conditions of the county scheme. The deposit to be forfeited to the County Committee in the event of the applicant when selected failing to comply with all the conditions of the county scheme. 17. The Department will not consider applications from a county in

17. The Department will not consider approximate that it is the consider approximate the scheme later than 1st December, 1910.

County Committees who intend to adopt this scheme should have all

arrangements completed prior to the 1st January, 1911.

18. (I.) Not later than 7th June, 1911, the selected applicants for premiums must forward to the Secretary of the County Committee the record books referred to in Clauses 19 (19), 13 (7), and 14 (3), accompanied by a certificate that the entries in these books are correct, and that all the conditions of this scheme have been compiled with.

(2.) As soon as the Department are satisfied as to the fulfilment of the conditions of this scheme, the Secretary of the County Committee will be notified that payment may be made by the Committee of the premiums or portions thereof payable under this scheme.

(3.) Any premium not applied for by the 7th June, 1911, shall be considered as having lapsed.

sidered as having lapsed.

19. No action shall be taken by the County Committee towards putting
this scheme, or any part thereof, into operation until the sanction of the

Department has been obtained in writing.

20. In all matters of dispute relating to this scheme the decision of the Department shall be final.

# Scheme No. 12. DEPARTMENT OF AGRICULTURE AND TECHNICAL

# INSTRUCTION FOR IRELAND. TUTORIAL AND PRACTICAL CLASSES IN POULTRY-KEEPING, 1910-11.

 The Department are prepared to approve the holding of Tutorial and Practical Classes in Poultry-Keeping by the Itinerant Instructors in Poultry-Keeping in counties where circumstances justify the introduction

of this form of instruction.

2. Classes will be held at each selected centre for at least two but not more than four weeks, and daily instruction of not less than two hours'

duration will be given.

At least eight pupils must be enrolled at each centre, but not more than

eighteen pupils will be admitted to any class.

Pupils must undertake to attend regularly, and no person under fifteen

Pupils must undertake to attend regularly, and no person under fifted years of age will be enrolled on the register.

3. It will be the duty of the Instructor—

(a.) To give instruction in the subjects suggested in the syllabirs, but the Instructor should consider the requirements of the district as well as the season of the year and select subjects accordingly. Each day's work should commence with a discourse and demonstration, the pupils taking notes, and should be followed by practical instruction Diagrams, meddels, and blackboard illustrations should be used as far

as possible.

The pupils should be required to take as full notes as possible;

these should be carefully checked and corrected by the Instructor

in her spare time. At the end of the week the Instructor should question the class on the week's work, and should hold a short examination at the end of

the week's work, and should hold a short examination at the end of the course.

(b.) To visit poultry runs every day in her spare time, especially at the homes of pupils, and advise as to requirements. The general

ed made distilled by the University of Southempton Library Distilled on Unit

conditions of management should be gone into, mistakes pointed out, and improvements suggested. The fowl-houses should be examined, and such points as accommodation, ventilation, lighting, perches, limewashing, etc., attended to where necessary. The preparation and mixing of the food might also be carried out under the direction of the Instructor.

(c.) To arrange for the distribution of the Department's leaflets

applicable to the subjects dealt with at the classes. (d.) To keep a register of attendance of the pupils, recording therein such particulars as the Department may require.

(e.) To furnish a report weekly to the Department and to the County Committee on the prescribed form.

4. It will be the duty of the County Committee to select suitable centres at which classes will be held, and to appoint at each centre a local committee with an honorary secretary, who will be responsible for the local arrangements necessary and for a good and regular attendance of pupils. The local committee should undertake to have posters and handbills,

which will be supplied by the Secretary of the County Committee, effectively

displayed in the neighbourhood of the centre-

The centres should be selected in rural districts, and large towns and villages should be avoided. No centre should be selected unless the County Committee have good

reason to believe that the instruction provided will be availed of to the fullest extent.

It will be the duty of the Secretary of the County Committee to keep an inventory, and be responsible for the custody, of all equipment provided.

### SYLLABUS.

(a.) Suggested Subjects for Discourse and Demonstration. I. Breeds best swited to district,—(1) for egg production; (2) for table; value of first crosses for both purposes. Describe points of (1) a good layer,

(2) a good table fowl; and illustrate the difference between each.

II. Ducks, Geese, and Turkeys, their rearing and management. III. Breeding and selection of stock.—Enumerate advantages of pure breeds over mongrel fowls, and point out the value of selection for desired points, e.g., laying strains, etc. Use of trap nests. (Illustrate by diagrams

and blackboard.) IV. Houses and Housing.—Suitable houses, illustrated by models or blackboard sketches. Colony system; other systems; principles of housing, such as situation, shelter, materials to use, size of house, venti-

lation, light, flooring, fittings (nest boxes and perches); care of houses; importance of cleanliness; danger from parasites.

V. Chicken Rearing.—Conditions necessary for success. When to hatch for (1) stock birds; (2) egg production: (3) market. Describe simple hatching box and how it might be made. Provide a hatching box and hen. Demonstrate on making the nest and setting the hen. Mention precaution necessary against rats and insect vermin. Explain the importance of fresh ground for chickens.

Describe best kind of coop and how to use it. (Illustrate by model or blackboard.)

VI. Feeding.-Importance of suitable foods. Best food: how to use them for (1) reering and fattening table poultry; (2) egg production. Give approximate quantities and prices of foods; show samples of feeding stuffs, grits, etc. Special attention should be paid to suitable foods of a simple character within the reach of poultry-keepers in the district.

VII. Selecting and Testing Hatching Eggs .- Kind of eggs to select; demonstrate with suitable and unsuitable eggs. Conditions necessary to obtain fertile eggs; describe a fertile, infertile, and addled egg (blackboard illustrations and specimens). Explain the use of testing, demonstrating with a hand tester.

VIII. Marketing of Eggs.—Necessary conditions, with special reference to size, cleanliness, freshness; production of winter eggs. IX. Eng Preservation for Home Use.—Best preservatives and how to

use them. Demonstrate with butter, vaseline, or water-glass.

X. Fattening.—Different methods; value of trough feeding; use of pellets; importance of observing proper methods as to fasting, killing, plucking, stubbing, singsing, shaping, cooling, packing, grading.

XI. Simple Accounts and Egg Records.—Explain advantages and refer

to books, see page 6 of scheme.

XII. Diseases.-Explain symptons, cause and treatment of the more common diseases, making special mention of the importance of fresh ground. isolation, etc., as a means of prevention. XIII. Composition of an Egg.—Description of its composition; the use

and association of the various parts in the formation of the chicken.

### Suggested Demonstrations.

(1.) Dissection of two birds, showing and explaining the effect and appearance between the organs of a healthy and diseased specimen. (2.) Dissection of a chicken with gapes, explaining symptoms, cause, preventive, and curative treatment, and demonstrating the effect of fumigation. (3.) Dissection of an over-fat hen, showing and explaining effect of accumulated fat on the egg-producing and other organs. (4.) Careful removal of the digestive organs of a fowl, explaining in detail their uses. (5.) Simple operations; the use of simple medicines. (6.) Making of simple appliances such as feeding troughs, drinking vessels, nest boxes, chicken coops, hatching boxes, etc.

(b.)-Practical Work in which Pupils should take part.

Fattening.—Hand cramming; the use of pellets. Preparing Poultry for Table and Market.—Killing, plucking, stubbing singeing, shaping by tving down, packing,

Trussing.—Chickens and ducks. Packing sittings of eggs and small boxes of fresh eggs for private trade. Examination of organs of a bird .- Specimens of different organs of a bird to be kept after trussing, pupils to identify same, and to explain their

TABLE OF WORK-EXAMPLE.

# FIRST WEEK.

MONDAY, -(Opening Day,) Previous to hour of class the Instructor should visit the appointed

place to unpack outfit and make final arrangements. Discourse and Demonstration. Fattening (†No. X.),-Killing, plucking, etc., and shaping fowl.

Practical Work.

Killing, plucking, etc., shaping (tying down).

Tursday.-Discourse and Demonstration. Breeds best suited to district (†I.); Trussing.

Practical Work. Trussing.

functions.

Wednesday.-Discourse and Demonstration. Feeding (†VI.); Dissection of digestive organs. Practical Work.

(I.) Killing, plucking, etc., shaping (tying down), (2.) Pellet Cramming.

THURSDAY .- Discourse and Demonstration. Houses and Housing (†IV.). Packing dead birds for market.

† These numbers refer to syllabus.

Practical Work.
(1.) Packing birds for market,

(2.) Trussing. (3.) Pellet Cramming.

FRIDAY.—Discourse and Demonstration.

Marketing of eggs (†VIII.); Packing sittings of eggs and small

boxes of fresh eggs for private trade.

Practical Work.

Packing sittings of eggs and fresh eggs for private trade, Class Work.

Class Work.

Questions to class on week's work explaining correction of notes.

SATURDAY.—Visiting poultry yards of pupils and others in the district,
and giving practical advice according to requirements.

## SECOND WEEK.

MONDAY.—Discourse and Demonstration.

Chicken rearing (†V.); Demonstration on making nest and setting hen.

Practical Work.
(1.) Killing, plucking, shaping.

(2.) Packing sittings of eggs and fresh eggs for private trade, Tursday.—Discourse and Demonstration.

Discourse and Demonstration. Selecting and testing hatching eggs (†VII.); showing and explaining use of hand testor.

Practical Work.
(1.) Trussing.

(1.) Trussing. (2.) Pellet Cramming.

Wednesday.—Discourse and Demonstration.

Demonstration; Dissection of two birds, showing the difference in appearance between the organs of a healthy and of a diseased specimen, and explaining the effect of the disease. Practical Work.

Killing, plucking, shaping (tying down), etc.

THURSDAY.—Discourse and Demonstration.

Demonstration; Dissection of a chicken affected with gapes; explaining symptoms, cause, preventive and curative treatment, and demonstrating the effect of funication.

Practical Work.
Trussing.

Class Work. Keeping of accounts.

FRIDAY.—Discourse and Demonstration.

Egg preservation for home use, showing how to use one or more

preservatives (†IX.).

Class Work.

Résumé of work of course; Examination.

SATURDAY.—Packing outfit and moving to new centre.

### Books.

Specimen account books are supplied to the Instructor, and each pupil should be recommended to procure one from Mesars. Dollard & Co., Printinghouse, Dublin. Price 6d., postage extra. Specimen books of Egg Record forms for the keeping of monthly returns are supplied to the Instructor, and additional copies will be forwarded to pupils who are willing to undertake the keeping of records.

† These numbers refer to syllabus.

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\* 1 Small Scrubbing Brush,

\* 6 Tin Porringers (2-pint size). \* 6 Plucking Baskets, 8 Enamel Plates,

1 Spring Hook Weighing Machine (40 lbs.), (56 lb. size, 7s.). 7 Sheets of Millboard (30" × 20") (for

mounting illustrations), (15" × 15") do 1 Egg Tester, fitted with black diaphragms for three sizes of

eggs; post free,. 1 Patent Egg Testing Lamp; carriage paid,

Messrs, George Perry and Co., Ltd., Camden-row, Dublin, are prepared to supply the abovementioned articles at the prices stated, on the following conditions:---

Cost of packing the above, (Part outfit in proportion.)

All f.o.r. Dublin, prices net. Six days required to execute orders. A written requisition, signed by person authorised to purchase, must be furnished. Contractors will not hold themselves responsible for delay in delivery of any articles on the list not of their own manufacture, nor will they give the option of any article supplied to order

being returned. The Knives can also be procured from the Irish Cutlery Manufacturing Co., Ltd., 17 Merchants' Quay, Dublin, and the Egg Tester and Lamp from Messrs. Hughes Bros., 22 Dawson-street, Dublin.

1 Dissecting Case, containing 2 metal-handle scalpels, 1 scissors, 1 forceps: post free, . This case may be obtained from Messrs. Fannin and Co.,

41 Grafton Street, Dublin. SUNDBIES, viz. : Samples of foods and grits, with tin boxes (4 lb. size); wood wool: furnisating powder and bellows for "Gapes"; small supply of drugs, viz. :—Carbolic Acid, Friar's Balsam. Perman-

ganate of Potash, Powdered Sulphur, Epsom Salts, Chlorodyne, Insect Powder, etc., estimated price,. These articles might be purchased according to requirements; it should be possible to obtain them locally.

\* Irish Manufacture.

Arrangements have been made for the supply of the following illustrations, which will be issued direct on application to the Department:—

1 Set of Poultry Illustrations (Seven Plates).

 Set of Anatomy Illustrations (Four Plates).
 (Each illustration to be mounted on millboard by the Instructor.)

Scheme No. 13.

### DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR TRELAND.

INSTRUCTION IN BUTTER-MAKING.

### 1910-11.

 The Department are prepared to approve the appointment of at least one Instructor in Butter-making in each county in Ireland, provided the County Committee can secure the services of a person or persons qualified for the position. In the case of new appointments no person shall be

eligible for the position of Instructor in the county of which she is a native or in which she permanently resides. The Department will, as far as possible, assist County Committees in

obtaining Instructors by supplying the names of qualified persons.

2. The remuneration of the Instructor shall not exceed £2 per week, in

addition to expenses of locomotion, which include second or third class railway fare as decided by the County Committee, car hire when necessary, or a bicycle allowance not exceeding 2d. per mile in lieu thereof.

3. The employment of the Instructor under this scheme shall not continue beyond the 30th September, 1911, and is terminable at any time previous to that date by the giving of four weeks notice in writing on either side.

The appointment of an Instructor will terminate as a matter of course on her marriage.

4. The instruction shall take the form of daily lessons on dairying, and practical work in which the pupils shall take part. Each course shall extend for a period of not less than two, and not more than four weeks. Not more than twelve pupils should be admitted to each class. Popils

must undertake to attend regularly.

It is desirable that pupils should be at least 15 years of age.

5. On the first day of visiting each centre the Instructor should give a public lecture and demonstration, and during the remainder of the course

at that centre should conduct a class daily in which pupils only will take part, but which shall be open to the public.

The Instructor shall keep a register of attendance of the pupils, recording therein such particulars as may be required by the Department.

It will also be the duty of the Instructor to visit home dairies in the county and to give necessary advice; to give, where possible during that part of the day not required for class work, demonstrations in the making of butter, by means of the equipment actually in use in the dairies visited; to "give to letters from persons seeking information on deirying; to reporved the contraction of the contraction of the contraction of the contraction of the work either vessely or otherwise as may be required; and generally to give

her whole time to the work of the Committee.

6. It will be the duty of the Commy Committee to select suitable centres at which classes will be held, and to appoint at each centre a local Committee, with an honorary secretary, who will be responsible for the local

arrangements necessary for the proper carrying out of the work, and who will be required to comply with the annexed conditions. The local committee should undertake to have posters and handbills, which will be supplied by the Secretary of the County Committee, effectively displayed in the neighbourhood of the centre. Copies of these posters and handbills should be forwarded to the Department at least a week prior to the commencement of each class.

It will also be the duty of the County Committee to undertake the responsibility of seeing that the Instructor's time is fully and usefully em-

ployed. The County Committee shall keep a separate account of all expenditure under this scheme, and shall furnish such detailed statements of that expenditure as may from time to time be required by the Department. The Secretary of the County Committee shall keep an inventory, and be

responsible for the custody, of all equipment provided for the purposes of this scheme. 7. To avoid expense and to ensure success these classes should be held, as far as possible, in schoolrooms or other suitable buildings in rural centres.

Unless in exceptional circumstances no class should be held in a large village or town, or near a creamery. The County Committee are alone responsible for the selection of centres

and arrangement of lectures. It is desirable, however, that the Instructor should be consulted in the matter. 8. No action shall be taken by the County Committee towards putting this scheme into operation until the sanction of the Department has been

# obtained in writing.

CONDITIONS REQUIRED OF LOCAL COMMITTEES. I. To secure premises suitable for a working dairy, if possible not less than 25 feet by 18 feet, or other dimensions affording similar floor space. Either a public room, schoolroom, or barn with good floor, would be suit-

able for the purpose. II. To secure a sufficient supply of good water.

III. To provide on the premises means of heating at least fifteen gallons of water at one time, for use in cleaning utensils, &c.

After the opening day at each centre about three gallons of milk and six gallons of cream will be required for each day's work. Note. -The pupils should bring sufficient milk or cream for the use of the class. IV. To guarantee not less than six and not more than twelve pupils to attend on each of the days over which the course of instruction extends.

V. To arrange for the carriage of utensiis from one centre to another. The weight of the utensils is usually from 25 to 30 cwts., and they are somewhat bulky.

di	iry school attended by twelve pur		g mst of t	tensus i	ora	NE SEC.	/ CIE.	reft.
	any amount according by theire page				App	r02	cinn	ste
						Ck	nst.	
						£		d.
	End-over-End Churns, at £3,					18	0	0
	Butter Workers, at 37s. 6d.,					11	- 5	0
6	Butter Boards, at 2s., .					0	12	0
4	Large Butter Boards, at 3s. 6d.,					0	14	0
6	Scoops, at 1s.,					θ	6	0
6	Sieves, at 2s. 6d.,					θ	15	0
6	Pairs Scotch Hands, at 2s. 6d.,	.3				0	15	0
6	Squeegees, at 1s., .					0	6	0
6	Scrubbing Brushes, at 1s.,					0	- 6	0
6	Thermometers, at 1s. 6d.,.					0	9	0
6	White Enamelled Buckets, at 5s.	6d.,				1	13	0
6	Iron Buckets, at 4s. 6d., .					1	7	0
4	Shallow Tine (Cream), at 4s.,		7			0	16	0
1	Pair Scales,					0	19	0

Set Iron Weights (7, 4, 2, 1, 1, & 1 l)	b.),			0	4	6
Set Brass Weights (2, 1, 1, & 1 oz.);				0	5	6
Set Creamometers,				0	6	6
Lactometer,				0	1	6
Gerber Butter-fat Tester (2 Bottles), a	bout			2	10	- 0
2-Quart Measure,				0	2	6
Quart Measures, at 1s. 9d., .				0	7	0
Pint Measures, at 1s. 3d., .				Θ	5	0
Skimmers, at 8d.,				0	1	4
Hand Separator (17 gallons per hour),	- 1	- 1	- 1	7	10	0
Portable Boiler (15 gallons),	- 1	- 1	- 1	2	14	- 0
TOTAL				_		_
				452	10	10

The above equipment allows one churn, one butter worker, and one set of the smaller utensils for two students. A dash churn may be included in the equipment when the County Committee deem it desirable.

## LOANS FOR THE PURCHASE OF HAND SEPARATORS.

Particulars of the conditions on which these loans are made to farmers occupying holdings valued at £50 and under may be obtained on application to the Secretary, Department of Agriculture and Technical Instruction for Ireland, Upper Merrion Street, Dublin.

Letters of application so addressed need not be stamped.

Scheme No. 14. Special attention is directed to Clause 9.

### DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

### INSTRUCTION IN HORTICULTURE AND THE MANAGEMENT OF BEES, 1910-11.

 The Department are prepared to approve the appointment of at least one Instructor in Horticulture and Beekeeping for each County in Ireland, provided the County Committee can secure the services of a person or persons qualified for the position. In the case of new appointments no person shall be eligible for the position of Instructor in the county of which he is a native, or in which he permanently resides.

The Department will, as far as possible, assist County Committees in

obtaining Instructors by supplying the names of qualified persons. 2. The remuneration of the Instructor shall not, unless in exceptional

circumstances, exceed £2 per week, in addition to expenses of locomotion, which include second or third-class railway fare, as decided by the County Committee, car hire when necessary, or a bicycle allowance not exceeding 2d. per mile in lieu thereof. If a motor cycle is used 3d. per mile may be allowed.

3. The employment of the Instructor under this scheme shall not continue beyond the 30th September, 1911, and is terminable at any time previous to that date by the giving of four weeks' notice in writing on either side.

4. It will be the duty of the Instructor to give demonstrations and, if approved, to deliver lectures on horticultural subjects, such as soils, manures, vesetable, fruit, and flower cultivation, plant diseases, and insect pests-to visit gardens and orchards, and give practical demonstrations on spraying, planting, pruning and grafting of fruit trees-to conduct such experiments and other demonstrations as may be approved by the Department-to select suitable land for this purpose-to supervise the sowing of the seeds and manures, and the keeping of the plots free from weeds-to give instruction in the principles and practice of modern bee-keeping-to deal with diseases of bees, plants, and trees-to advise farmers, cottoners. and others interested in land, as to the planting of trees, &c., for shelter and ornament-to reply to letters from those seeking his advice on horticultural and bee-keeping subjects-to give practical outdoor demonstrations to students attending winter agricultural classes-to report to the Department and to the County Committee on the progress of his work either weekly or otherwise, as may be required; and generally to give his whole time to the work and to do all in his power to further the interests of horticulture and bee-keeping in the county.

He will be required to carry out such duties as may be assigned to him in connection with any Orders issued by the Department under the Destructive Insects and Pests Acts, 1877 and 1907. Further, it will be his duty to report to the County Committee the names and addresses of persons in the possession of bushes or trees on which he has detected or has reasonable grounds for suspecting the existence of any disease or pest referred to in such Orders.

5. The Instructor shall report to the County Committee on all cases of foul brood which may come under his notice, and shall act as Inspector of the County Committee for the purposes of the Bee Pest Prevention (Ireland)

Regulations, 1909.

6. For the purposes of this scheme the county should be divided into circuits and the Instructor shall give outdoor demonstrations for three or four weeks in each circuit. The Instructor shall visit gardens, orchards and aniaries in the district, and give such information on practical subjects as the circumstances of the case may suggest. In cases, however, where an Instructor may be employed to give instruction in bee-keeping only it will not be necessary to divide the county into circuits. In such instances demonstrations can be arranged at centres from which applications have been made through the Secretary of the County Committee for his services.

The County Committee are alone responsible for the selection of centres for demonstrations. It is desirable, however, that the Instructor should

be consulted in the matter.

7. It will be the duty of the County Committee to select centres at which demonstrations shall be given. In selecting centres the County Committee should have particular regard to districts in which lectures and demonstrations may not have been given

in previous vears. It will also be the duty of the County Committee to undertake the responsibility of socing that the Instructor's time is fully and usefully

employed The County Committee shall keep a separate account of all expenditure under this scheme, and shall furnish detailed statements of such expenditure

as may from time to time be required by the Department. The Secretary of the County Committee shall keep an inventory, and be

responsible for the custody, of all equipment provided for the purposes of this scheme

8. Where it is considered desirable, with the approval of the Department, to arrange for lectures, the lectures should be given in schoolrooms or other suitable public rooms in the evenings, and should be held in rural centres. Towns and the larger villages should be avoided, as experience has shown that the greatest success attends those lectures which are given in the rural parts of a county. The local committee at each centre should be responsible for appointing a representative chairman for each lecture, and should undertake to have posters and handbills, which will be supplied by the Secretary of the County Committee, effectively displayed and distributed throughout their district. Copies of these posters and handbills should be forwarded to the Department at least a week prior to the commencement of each course of lectures. Each lecture should be followed by a discussion, during which persons interested in horticulture and bee-keeping will be

invited to ask questions,

9. The County Committee may purchase fruit, forest and other trees, shrubs, or plants, in bulk, and resell them at cost price, including carriage, to farmers and other residents in the county. As, however, it has come to the knowledge of the Department that trees and plants infested with disease have been imported into Ireland, it will be necessary for County Committees who intend to put this clause into operation to invite from nurserymen tenders for the supply of trees, &c., to be guaranteed free from disease, and before acceptance to submit the tenders to the Department for examination on or before 1st day of January in each year. The Department may, if they think it advisable, inspect the trees, &c., that are offered for sale, and satisfy themselves that the trees, &c., are suitable and free from disease.

10. In each circuit one demonstration plot may be provisionally selected for the purpose of growing vegetables, fruit, and flowers, and showing improved methods of cultivation, but no new plots shall be selected in a county if a sufficient number of suitable plots established in previous years

are being continued.

Before sanctioning the establishment of a new plot the Department must be satisfied as to the suitability of the site, &c. (See Clause 11.) Demonstration plots under this scheme may not be established in

connection with National or other primary schools or teachers' residences. (a.) In counties in which a sufficient number of suitable plots, approved by the Department under this scheme, already exist, the Committee shall make provision for the continuance of the plots at a cost not to exceed £1

per plot, (See List A.) It is not desirable to continue the grant to any plot for more than three

All requisite labour must be given gratuitously by the owner of the plot,

who will be entitled to the produce. (b.) In cases where it is proposed to establish new plots the Department will require compliance with the following regulations:-

(1) Plots must not exceed a quarter of an acre in extent, or be less than one-eighth of an acre (quarter-acre plots are recommended).

(2) No new plot shall be established save at a convenient centre adjacent to a main road.

(3) Plots should be selected on sites which are properly fenced. (4) The aspect of each plot and the nature of the soil must be suitable for vegetable growing and fruit cultivation. Necessary improvements, such as fencing and drainage, must be carried out, and when required farm-yard manure must be supplied, by the plot owner without expense to the Committee,

(5) The owner of the plot must sign an undertaking on the prescribed

form to continue the plot for three years.

(6) The necessary labour must be given gratuitously by the persons providing the plots-the produce to be their property. The cost of trees, &c., required for planting a new plot must not exceed £2. (See List B.)

(Note.—The Department recommend that allotments attached to labourers' cottages should be selected for the establishment of new demonstration

plots subject to the foregoing conditions. ]

(c.) The County Committee shall forward to the Department on the prescribed form, not later than the 1st of January, a list of demonstration plots selected for the year, accompanied, in the case of new plots, by a detailed report from the Instructor.

11. The Department's approval in writing must be obtained before any expense is incurred in connection with the establishment of a plot, 12. No action shall be taken by the County Committee towards putting

this scheme, or any part thereof, into operation until the sanction of the Department has been obtained in writing, In all matters of dispute relating to this scheme the decision of the

Department shall be final. [APPRINDIX

LIST A.

# RECOMMENDED FOR HONFICULTURAL DEMONSTRATION PLOTS ALREADY ISTABLISHED.

		Ve	getables.						
Variety.					Quantity.		Pr:		
Peas,					1 qt.		0	9	
Cabbage, Early,					1 oz.	• •			
Savoy,					½ oz.	• •	0	4	
Brussels Sprouts.					d oz.		0	6	
Broccoli,					ł oz.		0	9	
Carrots,					1 oz.		0	6	
Parsnips,					1 oz.		0	6	
Onions, Spring,					1 oz.		1	0	
Autumn,					l oz.		0	8	
Leek,					d oz.		0	6	
Lettuce,	• •				† oz.	• •	0	6	
		1	Towers.						
Sweet Pea, .					1 packet		1	0	
Mignonette,.					1 ,,		0	3	
Candituft					1 "		0	3	
Wallflower, .					1 ,,		0		
Nasturtium,					1 ,,	• • •	0	3	
							10	0	
		Artificial	Manures.						
Sulphate of Potas	h, .				3 st.	)		0	
Nitrate of Soda,					3 st.	}	10	U	
Superphosphate,					4 st.	)			
				9	otal	£1	0	0	

# LIST B.

# PROMERVIOUS DOR NEW HOWSECHLYBRAL DEMONSTRATION PLOTS

RECOMMENDED	FOR N	EW HORTIC	ULTURA	II DES	ONSTRATIO	n Pu	DTS.	
		Fruit and	Vegetal	iles.	Quantity,		Pric	10
Variety.					Quartery,			d.
							6	0
Apple Trees,					6	• •		0
Black Currents,					6		2	
Gooseberries,					6		2	0
Rhubarb,					3		2	0
Potatoes, Early,					4 st.		4	0
Late.					4 st.		4	0
					1 qt.		2	0
Peas,		* *			l oz.		ő	ñ
Cabbage, Early,			* *				ŏ	4
- Savoy,					i oz.			
Broccoli,					½ oz.		0	9
Brussels Sprouts,					ł oz.		0	6
Carrots					1 oz.		0	6
Parsnips					l oz.		0	6
Onion, Spring,					l oz.		1	0
Onion, spring,					l oz.		Ö	8
Autumn,							ŏ	6
Look					1 oz.			

Lettuce, ..

		1	lowers.	Q	mantity.		Pri	
Sweet Pea, .				1	packet,		8.	d. 0
Mismonette.								3
Candituft,					22		0	
				1	29		0	3
Wallflower, .				1	22		0	3
Nasturtium,				1	**		0	3
		Artificial	Manures			£1	10	0
Sulphate of Potas	h	- 1			3 st.			
Nitrate of Soda,					3 st.		10	0
Superphosphate,					4 st.	)		
				Tot	al,	.£2	0	(

Scheme No. 15. [Revised.]

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

SCHEME FOR ENCOURAGING IMPROVEMENT IN THE MANAGEMENT OF CREAMERIES AND AUXILIARY CREAMERIES.

### GENERAL REGULATIONS.

The object of this Scheme is to encourage improvement in the manufacture and marketing of dairy produce by providing facilities for obtaining advice on technical and business methods affecting the management of creameries and auxiliary creameries.
 For the purposes of this Scheme:—

(a) The term "creamery" shall mean promises adapted and utilised for the manufacture of butter in commercial quantities from cream separated by centrifugal force from the comminged milk supplies of a number of coverepers. Provided that the premises are not, and do not require to be, registered under the Sale of Food and Drugs Acts, 1875 to 1997.

The manufacture of butter in commercial quantities shall meen that on every day on which milk or cream is treated at the premises the quantity so dealt with is sufficient to make at least 56 lbs. of butter, but the Department may in their discretion regard as a creamery, premises at which the quantity of milk or cream dealt with on any one or more days is insufficient to make 56 lbs. of butter.

(b.) The term "auxiliary creamery" shall mean any premises adapted and utilised for the separation of cream by centrifugal force from the commingled milk supplies of a number of cowkeepers but not utilised for the manufacture of butter: Provided that the premises are not, and do not require to be, registered under the Sale of Food.

and Drugs Acts, 1875 to 1907.

(c.) The term "creamery butter" shall mean butter which has not been blended nor reworked and which has been made in a creamery from cream separated by centrifugal force from the commingled milk supplies of a number of cowiccens.

(d.) The term "year" shall mean the twelve months commencing on the 1st January and terminating on 31st December.

3. Any creamery or auxiliary creamery, from which application (on Form A 176, signed by the proprietor or by the president or chairman of the sectioty or company owning the creamery or auxiliary creamery, as the case may be, and by the manager thereof) is duly received and accepted by the

Department, will be inserted on the list of creameries and auxiliary creameries which are visited by the Department's Instructors in Dairying. Provided that a creamory at which cream or milk is received from one or more auxiliary creameries which are under the control of the proprietors of the creamery will not be entered or retained on the list in question unless all the auxiliary creameries referred to are at the same time entered or retained on the list. On the occasion of each visit all necessary advice will be afforded on matters relating to creamery management, and a report embodying the Instructor's observations on the condition and working of the creamery or auxiliary treamery visited will be entered in a special report book to be supplied by the Department, and to be carefully preserved at the creamery or auxiliary creamery, as the case may be, and produced for the inspection of the Department's officers when so required. Supplementary reports will be furnished, as may be thought fit, in special circurnstances, e.g., when suggestions for specifications for machinery and sketch-plans or notes for alterations in buildings are required.

4. A croamery or auxiliary eroamery from which application on Form A 175 is accepted will be visited by the Department's Instructors until notification is given to the contrary on either side. A croamery or auxiliary ereamery on the list of those receiving visits from the Instructors at the date of publication of the Scheme will be considered as entered for visits under this Scheme, unless notification to the contrary is received.

6. Applications (on Form A. 174, signed by the propinctor or by the president or chairman of the society or company ormain; the eremany or auxiliary eventury, as the uses may be, so by the manager thereof) may be present of the society of the president of the president of buildings, or suggestions for specifications for machinery. It is, however, to be understood that, except in cases of special urgreey, applications of this nature cannot receive prior attention to those made on Form A 175. Applications on Form A 176 and the considered only from creamaries.

structors in connection with applications on Form A 175.

6. The premises and methods of creameries and auxiliary creameries entered on the list of those visited by the Denartment's Instructors must be

open at all reasonable times to inspection by the Department.
7. The Department may, without assigning any reason, refuse to send an Instructor to any creamery or auxiliary creamery.

8. The Department will publish from time to time a List containing the names and addresses (with such other particulars as may be thought till of those creametes and auxiliary creameries entered for impection which satisfy the Department in the following matters:—
(1.) That proper care has been taken by the proprietors and staff

to secure that the milk or cream dealt with at the creamery or auxiliary creamery is supplied in a clean condition and in clean vessels.

(2.) That proper care has been taken by the manager and staff to

2.) That proper care has been taken by the manager and staff to maintain eleanliness and order in the management and condition of the creamery or auxiliary creamery.

(3.) That the book-keeping and business methods are efficient.
(4.) That the buildings and equipment are in good condition and

(4.) That the buildings and equipment are in good conduton and adequate for the business.

\*(5.) That suitable packages are used for butter, and in the case of 56 lb. boxes and 112 lb. Icles that they conform with the standard

\*(6.) That apprentices and pupils (if any) receive efficient training and instruction.
\*(7.) That, if the creamery is included in the latest published List,

butter is forwarded to each of the Surprise Butter Inspections held by the Department after the date of publication.

Not applicable in the case of auxiliary creameries.

specifications (see Leaflet No. 60),

[Failure to forward duly a package of butter from a creamery to any one Surprise Butter Inspection will, except in circumstances which in the opinion of the Department afford a satisfactory excuse for such failure, disqualify the creamery for inclusion in the next List to be published by the Department.

# SURPRISE BUTTER INSPECTIONS.

9. On a number of occasions at the option of the Department a telegram may be forwarded to any creamery on the latest published List of creamgries (see Clause 8), requesting the recipient to "send butter to-day to Department's Surprise Inspection." Provided that a creamery which is removed from the list of those visited by the Department's Instructors in Dairving or which fails to comply with clauses 8 (1), 8 (2), 8 (3), 8 (5), or 8 (6) of this scheme shall not be entitled to participate in the Inspections. The butter shall be sent to an address in Dublin or elsewhere, which will be communicated to the Manager of the creamery.

10. Between the 1st October and 1st May the telegrams will be issued on Mondays, Wednesdays and Fridays only.

11. The butter at each Inspection will be judged one or more times by

one or more persons appointed by the Department, and in one or more sections according as the Department may consider desirable. 12. The following scale of points will be adopted as the basis in judging

the butter sent to the Inspections :-Flavour, . 60 points.

A schedule giving in such form as the Department may decide, the results of the judging of the butter received from each creamery participating in the Inspection will be issued after each Inspection to all the participating greameries. In addition notes of any particular defect or defects observed in any lot of butter may be communicated to the manufacturer for the purpose of indicating the points in which improvement is especially required. If so desired, an Instructor in Dairying will be directed to visit the creamery for the purpose of assisting the Manager to remedy any defect which can be most satisfactorily dealt with by means of such assistance.

13. The following conditions must be complied with in respect of each iot of butter forwarded to the Inspections :-

(1.) The butter forwarded must be a sample of the ordinary creamery butter made at the creamery on the day on which the telegram is received, from cream separated on a preceding working day, and must be forwarded by passenger train, carriage paid, on the

day on which the telegram is received. (2.) The quantity of butter forwarded must be either 56 lbs. or 112 lbs.

packed in a box, keg or kiel, similar to those in regular use at the creamery. In special circumstances the Department may, however, in the case of Inspections held between 1st October and 1st May, accept a smaller quantity of butter.

(3.) Excepting the direction labels supplied by the Department for use during the current year, there must be no mark or label in or on the butter which might indicate its origin.

(4.) The earrying company's receipt must be transmitted to the Department by post on the day on which the butter is forwarded. Unless the carrying company's receipt is received at the office of the Department by the ordinary postal delivery on the morning of the day following that on which the telegram is despatched, the butter will be liable to be disqualified.

Failure to comply with any one of the foregoing conditions will render butter in respect of which such failure takes place liable to be disqualified from participating in the Inspection to which it is forwarded.

14. The butter forwarded for the Inspections will be paid for by the Department at the end of the year. The prices given will be based on the current marcie rates prevailing for the various classes of butter at the dates on which the telegrams are despatched, and shall be determined by the judges.

punges.

Provided that any butter which reaches the Department in an unsatisfactory condition or which develops defects which, in the opinion of the Department should be seen by the manufacturer, may be returned to him

Department should be seen by the manufacturer, may be returned to him at his own risk, and will not be paid for. 15. The Department may, without assigning any reason, refuse to accept for the Inspections butter from any creamery.

for the Inspections butter from any creamery.

16. In all cases of dispute in matters connected with any part of this Scheme the decision of the Department shall be final.

### LOCAL SURPRISE BUTTER INSPECTIONS.

The Department having decided to discontinue the awarding of prime at their Surprise Butter Impections are prepared intende to devote person of their funds to encouraging Local Surprise Butter Inspections of a similar kind, but carrier dou'th yer exampre proprietors and ramagers themselves All creameries in the district, whether taking part in the Department's Scheme or not, will be entitled to take part in the Local Inspections subject. The contraction of the Conference of t

ascertain the number of creameries from which butter would be regularly sent to the Local Inspections. A Local Committee representative of the sent to the Local Inspections. A Local Committee representative of the the Local Inspections should then be formed. This Committee should to the Local Inspections should then be formed. This Committee should be entrasted with the carrying out of all the arrangements in connection with the Inspections. The Department will be prepared to consider an applition of the committee of the Committee of the Committee of the the expenses of bolding Local Suprime Butter Inspections.

The grant to be made by the Department will be subject to the following conditions:—

 That a sufficient number of creameries participate regularly in the Inspections.
 That all the regulations made by the Local Committee are sub-

mitted to the Department for approval and are approved by the Department.

(3.) That a proportion of the cost of the Inspections is contributed by

the proportion of the cost of the inspections is contributed by the proprietors of participating creameries.

(4.) That the Local Committee accepts complete responsibility for the

That the Local Committee accepts complete responsibility for the
proper carrying out of the Inspections.
 That the Inspections are carried out strictly in accordance with
the regulations as prescribed by the Local Committee and

### WINTER COURSES OF INSTRUCTION.

approved by the Department.

During the winter a course of instruction in the subjects of excinations of certificates will be provided. At the close of this course a limited number of the best students will be afforded facilities for learning the practice of creamery management during the summer in a selected creamery. Such students will receive a maintenance allowance at the rate of ten skillings per week, in addition to Free instruction, while in attendance at the creatper week, in addition to Free instruction, while in attendance at the creat-

\* Hitherto described as "Surprise Butter Competitions."

Attendance at the annual course of instruction for students of agriculture at the Albert Agricultural College, Glasnevin, is recommended as a preliminary general training for young men who may intend to become creamery managers.

SCHOLARSHIPS FOR STUDENTS OF CREAMERY MANAGE-

One or more scholarships, tenable at the Royal College of Science, Dublin, may be offered yearly to students who desire to specialise in subjects relating to the management of creameries. Particulars as to the date, place, and subjects of examination will be published by the Department in due course.

### CERTIFICATES.

An examination will be held annually in March in technical subjects as applied to creamery management, and a certificate of having passed the examination will be awarded to successful competitors. The subjects of the examination are set forth in Appendix II. Due notice of time and place will be civen to applicants.

A special certificate designated the "creamery manager's certificate" will be granted to candidates who having passed the examination in technical knowledge satisfy the Department with regard to their practical

ability as creamory managers.

Applications for admission to the examination should be made not later than 15th February, on Form A 137, to be obtained from the Department, and must be accompanied by a deposit of £1, which will be returned if the candidate presents himself for examination, or if his application is not accepted.

The Regulations of this Science are subject to receive from time to time.
The Appendix on A List of Orenavire and Australiary Greenestee pubtive of present the Comment of Australiary Greenestee pubtive of the Comment of Australia of Commenter pubpermetally, and may be definited free of change, and post free, on application
to the Secretary, Department of Agriculture and Technical Instruction for
Iralinal, Upper Merrion Street, Dublin. Letters of application so addressed

need not be stamped. January 1911.

Scheme No. 16.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

SCHEME OF LOANS FOR THE ERECTION OF VILLAGE HALLS.

The Department are prepared to consider a limited number of applications for loans to aid in the erection and equipment of new buildings, or the adaptation of existing buildings, to be used as Village Halls in rural parts of Ireland, subject to the following conditions:—

1. Application must be made on the prescribed form, which can be obtained free from the Department.

2. The amount of any one loan to be advanced by the Department under this scheme shall not exceed two-thirds of the approved cost—the balance to be raised locally by means of private subscriptions or otherwise.

The loan shall be issued in such sums and at such times as the Department may decide.

ment may decide.

3. A Committee of not less than three or more than nine solvent ratepayers resident in the district shall be formed. The buildings and equipment shall be vested in this Committee who shall deslare a Trust that the said buildings and equipment are held by them as Trustees for public purposes, i.e., for the promotion of "the purposes of agriculture and rural industries as defined by the Agriculture and Technical Instruction (Ireland) Act, 1899," and shall make provision to the satisfaction of the Department for the appointment of new Trustees pursuant to these conditions,

4. The Trustees when applying for a loan shall furnish the Department with a statement setting forth the special object in view in providing a Hall. together with such details as to the site, particulars of tenure, &c., as the

Department may require.

5. The Trustees shall not take any steps to begin the work of building or to incur any liability until the Department have signified in writing their approval of the design, plans, and estimate of the cost of erection, &c.,

of the proposed Hall. 6. Before the amount of the loan is issued the Department will require

to be satisfied that the sum contributed locally has been actually collected and lodged in bank, 7. The sum advanced by the Department together with the money contributed locally for the purpose shall be expended by the Trustees on the building and equipment of the Hall in the manner approved by the Department.

8. The Department must be satisfied that the Trustees have made adequate provision for the permanent and proper unkness of the buildings

and equipment.

9. The sum advanced by the Department shall be duly charged as a first charge on the land and buildings. In addition, the Trustees shall enter into a Bond to repay the amount of the loan in not more than ten equal annual instalments payable on the first day of June in each year with interest at the rate of two-and-a-half per cent, per annum on the outstanding balance; provided, however, that the Trustees shall be at liberty to repay the full amount or the balance of the loan at any earlier period. The Bond and Deed of Charge referred to in this clause, and the Declaration of Trust referred to in clause 3 shall be in such form, and shall contain such provisions as the Department may prescribe.

10. The Trustees shall have the sole management of the Hall; shall pay all the rent and other charges thereon, and shall keep the building and furniture adequately insured, and in proper repair, to the satisfaction of the

Department.

11. It shall be a condition of the loan that the Committee or Committees of Agriculture and Technical Instruction for the county in which the building is situated, and the Department shall have prior claim for the use of the Hall in connection with the purposes of any approved County Scheme. On all occasions when the Hall is required either by a County Committee or by the Department the Trustees shall, at their own cost, have the Hall

sufficiently lighted and warmed. Subject to the foregoing the Trustees may permit the Hall to be used for entertainments or for any other purpose of which they may approve.

 The Trustees may fix a scale of fees for use of the Hall by a County Committee or the Department under the preceding clause, or by any other person or body for a purpose approved by the Trustees-provided that such scale so far as it refers to the use of the Hall by a County Committee or by the Department for the purposes of Agriculture and Technical Instruction. shall first be submitted to the Department for their approval in writing All fees so received shall be applied by the Trustees in repayment of the loan, and for the purpose of defraying or assisting to defray expenditure in connection with the rent of the site of Hall and the upknep of the buildings and equipment.

13. The Trustees shall keep accurate accounts of all receipts and expenditure in connection with the buildings and equipment, and shall permit same

to be inspected at any time by the Department's Officers.

· 14. The Department shall have the right at all times to visit, inspect and examine the buildings and equipment.

15. If prior to the repayment of the loan the Trustees or any of them, or any Trustee appointed subsequent to the issuing of the loan dies, or it sharious of being discharged from the Trust, or goes or resides out of Ireland for a continuous period of twelve calcinate months, and neglects or refuse to coarry out the Trust or becomes unable to execute the Trust, the surviving or confining Trustees or Trustee that, subject to the Department's approved, appoint a new Trustee of Trustee and Trustees or Trustee to the Company of the Company o

of appointment, the appointment shall be made by the Department.

16. In all matters relating to loans under this Scheme, and to the regulations of the Scheme the decision of the Department shall be in every respect

final and conclusive.

Scheme No. 17.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

SCHEME OF LOANS FOR THE ERECTION OF FENCING IN COUNTIES CONTAINING CONGESTED DISTRICTS.

The Department are prepared to consider a limited number of applications for loans for the exection of wire fencing on the lands of small occupiers resident in counties containing compested districts, subject to the conditions mentioned below.

These loans are not intended for occupiers who can afford, or may

These leans are not intended for occupiers who can afford, or may responsibly be expected to pay, cash for the required fencing, nor for cases

- in which, having regard to the position of the occupier and the extent of the proposed feming, application for a loan should be made to the Board of Works. The object of these leans is to encourage small occupiers to force in their adults lead to the femine of incuming spating, so as 'go to closely lead to the spating to be supported and laid down with grass and clover 1. An application for a loan must be made on the presented form, which
- 2. No application for a loan will be considered unless in cases where the
- Department are satisfied that each applicant is a person of very small means.

  3. Save in exceptional circumstances no application for a loan will be considered from any farmer whose gross Poor Law Valuation exceeds £20.
- considered from any farmer whose gross Poor Law Valuation exceeds £20.

  4. In no cesse shall a loan be granted to an individual for a smaller withan £5 or a larger amount than £33. When the loan is made to two or more persons the loan shall not exceed £35 for each person who is a party to it.
  - Loans will be granted for the purpose of erecting wire fencing
     (a) for the boundary fence of a bolding;
    - (b) for separating arable land from mountain grazing or similar rough pasture; and (c) for the internal fencing on the farms of applicants where wire
  - (c) for the internal fencing on the farms of applicants where wire fencing is the most suitable for the purpose.
    6. Subject to the provisions of Clause 7, loans of £5 up to and including
- £15 shall be repayable within five years; and leans exceeding £15 and not exceeding £35 shall be repayable within ten years. In the case of a joint lean to two or more persons, the Department will decide whether the lean shall be repayable in five or ten years as the case may be.
- 7. In the case of loans to individuals, the applicant and two approved solvent survities shall sign a form of guarantee to repay to the Department the amount of the loan in ten (or twenty, as the case may be) equal half-

gether with interest at the rate of 3 per cent. per annum on the outstanding balance. In the case of joint loans to two or more persons the security shall be in the form of a joint and several bond. For example, a loan of £10 granted on the 1st January, 1907, will be

repayable as follows:-

								(Instalmen	ts of £1 with	
						1st July, 1907	interest	on £10 for six	months at 3 per	cent.)
£1	:	2	:	9		1st January, 1908	( do.	9	do.	- 1
£1	1	2	:	4		1st July, 1908	( do.	8	do.	i
						1st January, 1909		7	do.	í
						1st July, 1909	( do.	6	do.	i
						1st January, 1910	( do.	5	do.	1
						1st July, 1910	( do.	4	do.	- i
						1st January, 1911	( do.	3	do.	j
£1	:	θ	:	7		1st July, 1911	( do.	2	do.	i
£1	:	0	:	4	,,	1st January, 1912	( do.	1	do.	j

8. The person to whom a loan is granted shall be at liberty to repay the full amount or the balance of the loan, with interest, at any earlier period than that provided for in the form of guarantee. 9. When satisfied that the approved applicant for the loan has made

proper preparation for proceeding with the work, the Department will supply the necessary fencing materials as well as the services of a foreman to superintend, for a limited period, the erection of the fencing. The farmer on whose lands the fencing is to be crected must at his own expense provide such other labour as may be required.

The Department reserve the right to refuse any application for a

loan without assigning any reason for such refusal. 11. The decision of the Department in all matters relating to these loans shall be final and conclusive.

Scheme No. 18.

### DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

SCHEME OF LOANS FOR THE PURCHASE OF HAND SEPARATORS.

The Department are prepared to consider a limited number of applications from farmers for loans for the purchase of hand separators, subject to the conditions mentioned below. Preference will be given to those applications which are recommended by the County Committees of Agriculture for the counties from which they are received. The Department invite the co-operation of the various County Committees in making known the advantages of the scheme to persons in their respective counties who are engaged in home dairying, and they will rely on the Committees to recommend only those applicants who are deserving of such assistance and who may be safely depended upon to repay the loans if granted.

1. Application must be made on the prescribed form, which may be obtained free from the Department or from the Secretary of the County

Committee. 2. The Department will need to be satisfied in each case that the applicant is a person of small means, and one who could not reasonably be expected

to pay cash for the required separator.

3. No loan will be granted to a person the aggregate tenement valuation of whose holding or holdings, wherever situated and for which he is rated, exceeds £50, or for the purchase of a separator whose capacity exceeds 45 gallons per hour.

4. No loan will be made save for the purchase of a separator of a price and pattern approved by the Department. The cost of erecting the separator on the applicant's premises will not necessarily be included in the price.
5. Before the loan is granted the approved applicant must—

(1.) Lodge with the Department one-fourth of the purchase price.

together with sixpence to cover stamp duty, etc.; and
(2.) With two solvent sureties, to be approved of by the Department,
guarantee in such form as the Department may require, repayment

guarantee in such form as the Department may require, ropayment to the Department of the amount which shall be advanced by them, viz., three-fourths of the purchase price, in three equal annual instalments, payable on the lat Aprill in each year, tegether with interest at the rate of three per cent. per annum on the outstanding balance. 8 The sensentor shall be nurchased birmouth the Denartment, who will

The separator shall be purchased through the Department, who will
pay the vendor the agreed on price as soon as the applicant has notified the

Department that he has taken delivery of the machine.

7. The approved applicant shall, during the period from the delivery of the separator until the payment of the last instalment of the purchasemoney to the Department, maintain the separator in good order and repair, and istall pay and delray all cests of repairs and of providing new parts of, during the above period, sell or dispose of the separator without the consent in writing of the Department.

8. The separator shall remain the property of the Department until all the instalments of principal and interest are paid off.

9. The Department reserve the right to brand each separator and to inspect it from time to time.

10. The Department also reserve the right to refuse any application for a

the Department age reserve the right of reture any application to a loan without assigning any reason for such refusal.

11. The decision of the Department in all matters relating to these loans shall be final.

Scheme No. 19.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

LOANS FOR THE PURCHASE OF HORSE SPRAYING MACHINES.

The Department are proposed to genus a limited number of loans for the purhase of lones propring mechanics to farmers who are recommended by the County Committees of Agriculture of the counties in which they reside. The Department will rely on the Committee to recommend only those applicants who are deserving of such assistance, and who may be safely deepened unto no pracy the lones if granted.

The conditions under which the Department are willing to advance these leans are as follows:—

(1.) Application must be made on the prescribed Form A 245, which may be obtained free from the Department or from the Secretary of the County Committee. Applications must in all cases be transmitted to the Department through the Secretary of the County Committee.

(2.) No loan will be granted save for the purchase of a horse sprayer of a price and pattern approved by the Department.
(3.) Before the loan is granted the approved applicant must—

(a) Lodge with the Department one-fourth of the purchase-money, together with sixpence to cover stamp duty, &c., and.
(b) With two solvent sureties to be approved by the Department, guarantee in such form as the Department may require, repayment to the Expentment of the amount which shall be advanced by them, viz.

three-fourths of the approved purchase price, in three equal annual instalments, payable on the 1st May in each year, together with interest at the rate of 3 per cent. per annum on the outstanding balance. (4.) The machine shall be purchased through the Department, who will

pay the vendor the agreed on price as soon as the applicant has taken

delivery of the machine.

(5.) The approved applicant shall during the period from the delivery of the sprayer until the payment of the last instalment of the purchase money to the Department, maintain the machine in good order and repair, and shall pay and defray all costs of repairs and of providing new parts of, and expenses in relation to, the said sprayer, and the applicant shall not, during the above period, sell or dispose of the sprayer without the consent in writing of the Department.

(6.) The sprayer shall remain the property of the Department until the

instalments of principal and interest are paid off. (7.) The applicant shall agree to hire the machine to farmers in his district, on such conditions as may be prescribed by the County Committee

with the approval of the Department. (8.) The decision of the Department in all matters relating to these leans shall be final.

Scheme No. 20.

### DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND. SCHEME FOR ENCOURAGING IMPROVEMENT IN THE

DAIRY CATTLE OF IRELAND THROUGH THE SELECTION AND REGISTRATION OF COWS. Dairying, as well as the raising of store cattle, is one of the principal branches of agriculture pursued in this country. It is, accordingly, of

importance that the milking properties of Irish cattle should be preserved and improved. In dairy herds the yield and quality of milk given by each cow largely determine whether the animal realises a profit or entails a loss to the owner; consequently it is essential that farmers should know exactly the quantity and quality of milk which each cow yields per annum. At the same time, as young cattle are a considerable source of revenue, it is desirable that the good milking cow should be of the type likely to produce a calf which will be of value for both heef and milk. With the object of encouraging the improvement of Irish dairy cattle, the Department have decided to put into operation the following scheme.

1. The Department will keep a register of dairy cattle in which cows and their produce may he entered, subject to the provisions of this scheme. The inspection of cows with a view to entry on this register will be carried out hy the Department.

#### INDIVIDUAL OWNERS.

2. Owners of good cross-hred shorthorn, and pure-bred dairy cows are invited to apply on the prescribed form for the inspection of their stock by the Department as regards :---

(a) General merit (i.e., appearance), and (b) Milk yield.

Only cows of a distinct and well-defined type are eligible. 3. Applications for the inspection of cows must be ledged with the Department on the prescribed form on or before the 31st August each year, and must be accompanied by a fee of 2s. 6d. in respect of each cow entered for inspection.

As soon as all applications have been received, the Department will give due notice to each cow owner of the centre fixed for inspection of his animals.

Cow owners presenting animals for inspection will be refunded all fees paid by them except in respect of cows which are provisionally selected

for registration under Clause 4.
4. Cows will be provisionally selected, on the ground of general merit, as local shows, local exhibitions, or at such other convenient centres as may

be determined by the Department.

With regard to inspections elsewhere than at local shows, it should be understood that the Department, save in exceptional cases, cannot under-

take to send an Inspector to any district unless at least ten cows from such district are offered for inspection.

All animals provisionally selected for general merit under this scheme will be suitably marked by the Department for future identification.

## Provisionally Selected Cours.

5. Owners of cows provisionally selected under Clause 4, are required to observe the following conditions:— (a.) To provide themselves with an approved type of machine for

(a.) To provide themselves with an approved type of machine for weighing milk;
(b.) To weigh the milk yielded by each cow on every seventh day

during the entire milking period (the exact day of the week for each herd will be fixed by the Department), and to record the same on the form provided for the purpose;

(a) To permit their herds to be inspected by the Department at any time; and
(d.) To afford the Department every facility for examining the milk

(d.) To attord the Department every racinty for examining one must records and for taking samples of the milk of each selected animal.

6. The records kept under Clause 5 (b.) shall be forwarded to the Depart-

ment when required. This will, usually, be at the end of the year following that in which cows were provisionally selected.

 As soon as possible after the receipt of these records, the Department will notify to each owner of a provisionally selected cow their decision as to the registration or rejection of the animal.

as to the registration or rejection of the admini-S. If the owner of a provisionally selected own complies with the requirements of Clause II, and if the cow is subsequently accepted for entry in the Department's register, particular of the department of the the Department's register, particular of the property of the visit the dam, will be duly recorded in the register, and such propeny will be caulifed to the same benefits as if cadved after the registration of the dam.

#### COW TESTING ASSOCIATIONS.

9. The following regulations apply to Cow Testing Associations only :— (L) A cow testing association formed for the purpose of this scheme may be composed either of members of existing agricultural and dairy soleties or of farmers combining specially for the purpose, who will undertake to comply with the following conditions:—

(a.) The association shall secure an entry of as many herds of milking cows as possible, each member of the association being required to enter all his cows.

(b.) The members shall have the milk of each cow weighed on every seventh day (the exact day of the week being fixed by the association). The morning and evening milk shall be weighed, and recorded separately on the form prescribed for the purpose.
(c.) After every weighing a sample of each cow's milk must be taken

(c.) After every weighing a sample of each cow's milk must be taken and preserved until the end of the month, when the composite sample for the month shall be tested for butter-fat. (d<sub>\*</sub>) The association shall appoint a secretary, whose duties shall be: (i.) to transfer the weekly records to the "monthly summary" book provided for the purpose ; (ii.) to ensure that the monthly butter-fat tests are regularly carried out, and (iii.) to record the results of these tests in the monthly summary book. (e.) The record sheets, monthly summary book, list of members of the

association, etc., must be open to inspection by the Department at any time.

(II.) When the Department are satisfied that a cow testing association has been formed, and that suitable arrangements have been made to comply with the foregoing requirements, they will be prepared to supply the society with the necessary number of byre record sheets and monthly summary

(III.) If the number of cows for which records are being kept exceeds fifty, the Department will (in a limited number of cases) be prepared for at least one year to make a grant to the secretary at the rate of one penny per cow per month towards the cost of testing the milk for butter-fat. (IV.) The Department will be prepared to inspect all cows which have

given, during the milking period covered by the records, a yield of not less than 500 gallons of mills with an average butter-fat percentage of 3.5, and to accept for entry in the Registry of Dairy Cattle, on payment of a fee of 2s. 6d. for each cow, all animals of good conformation and well-defined type, 10. Applications in regard to proposed cow testing associations will be dealt with in the order in which they are received.

#### Registered Conns.

11. The owner of each registered cow must comply with the following conditions :---

(a.) To have the animal served by a registered dairy bull or a purebred bull of her own type. These bulls must be passed by the Department as eligible for a premium. Persons who intend eventually to enter the progeny of

registered cows in the herd books of their respective breeds must have the cows served by pure-bred bulls. N.B .-- A registered dairy bull may be pure-bred.]

(b.) To forward on the prescribed form a certificate of service to the Department within three months from the date of such service :

(c.) To furnish to the Department on the prescribed form, within seven days from the date of birth, particulars regarding sex, colour, markings, etc., of each calf produced by a registered cow; and

(d.) To keep on the prescribed form a record of the breeding, date of

birth, etc., of produce, for the purposes of future registration. 12. The female progeny from the service of registered cows by bulls approved under Clause 11 (a) will be eligible for inspection at or about two

years old, at a fee 2s, 6d, each, 13. In cases where the conditions of Clause 11 have been fully complied with, male progeny are eligible for inspection with a view to provisional

selection for premiums under the Department's Cattle Breeding Scheme, within the limits of age specified therein, and, if so selected, will be entered in the Register of Dairy Cattle as "Registered Dairy Bulls." 14. When a registered cow or her calf has been disposed of, the Department must be notified of the fact within fourteen days of the disposal of the animal, and at the same time advised of the name and address of the

new owner. The death of a registered cow or her calf must also be notified to the

Department within fourteen days of the death of the animal, 15. In all cases of dispute in matters connected with this scheme the

decision of the Department shall be final. July, 1911.

Scheme No. 21.

#### DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

LOANS FOR THE REPAIR AND EQUIPMENT OF MEAL MILLS, KILNS FOR DRYING, &c.

The Department are prepared to consider a limited number of applications for loans to aid in the repair and equipment of existing mills, etc., or the adaptation of existing buildings to be used as such, subject to the

or the adaptation of existing buildings to be used as such, subject to the following conditions:—

1. The application must be made on the prescribed form, which can be

obtained from the Department.

2. The amount to be advanced by the Department under this Scheme shall not exceed two-thirds of the approved cost.

shall not exceed two-turns of the approved cost.

3. The applicant shall furnish the Department with a statement setting forth the special object in view in providing the mill, together with such details as to site, particulars of tenure, etc., as the Department may require.

4. The applicant shall not take any steps to begin the work of repairing,

equipping or erecting the building, or incur any liability until the Department have signified in writing their approval of the plans, estimate of cost of repair or of additional buildings, and machinery and equipment, etc.

of repair or of additional buildings, and machinery and equipment, etc.

5. The sum advanced shall be expended in a manner approved of by the
Department.

6. The sum advanced shall be duly charged as a first charge on the

building, muchinery and equipment. In addition, the applicant shall, together with two solvent survises approved by the Department, enter into a lond to repay the loan in not more than ten equal annual instalments, psyable on the lat day of January in each year, with interest at the rate of 3 per cent, the first instalment to be repayable, with interest calculated from the date of advance, on the second age day following the date of advances, on the second age day following the date of advances, on the second age day following the date of advances on the second age day following the date of advances of the loan at any earlier period, together with the interest to date.

7. During the period the loan is outstanding, the buildings, machinery, and equipment shall be kept in proper repair, and adequately insured, by the applicant at his own expense. The receipts for insurance premiums shall be submitted to the Department when required.

8. The Department shall have the right at all reasonable times to inspect the buildings, books, machinery and equipment.
9. The applicant shall undertake to furnish such reports and to keep such

accounts in connection with the working of the mill as the Department may require, and shall submit same to the Department when requested to do so.

10. In all matters relating to loans under this scheme, and to the regula-

tions of the scheme, the decision of the Department shall be in every respect final and conclusive.

In the event of an instalment of principal and interest being in arrear for

or time event or an instancent of principal and interest being in arroat for more than four weeks, the Department shall be at liberty to act in any one or more of the following ways at their discretion:—

(a.) to recover with costs the amount of the instalment of principal and interest from the applicant and his sureties;
(b.) to recover with costs the outstanding balance of the loan, with

(a.) to recover with costs the outstanding namice of the loan, with interest, from the applicant and his suresties; (c.) to take possession of the mill buildings, machinery and equipment, and to sell same in satisfaction of so much of the loan as may

#### DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

# VETERINARY DISPENSARIES IN CONGESTED DISTRICTS.

1. The Department will establish a limited number of Veterinary Disponaries in the poorer parts of the nine congested counties. For this purpose they propose to subsidise a number of Veterinary Surgeous, whose headquarters are within reasonable distance of the districts to be benefited.
2. In fixing the subsidy to be paid Veterinary Surgeons for their services.

2. În fixing the subsidy to be paid Veterinary Surgeons for their services the Department will take into consideration the poverty of the district, the difficulties of travelling, and whether the district is or is not regularly visited by the Veterinary Surgeon in the ordinary course of his practice. 3. Subsidised Veterinary Surgeons will be required to give advice to all

bora-fide farmers under £10 valuation and resident in congested districts who seek it either at a dispensary or at the Veterinary Surgeon's headquarters.

4. The term "bora-fide farmer" is to be understood to mean a person who

derives his means of living mainly from the cultivation of his holding. Each applicant must, if requested to do so, produce evidence that his total valuation does not exceed £10.

valuation does not exceed £10.

5. Substitled Veterinary Surgeons will be required to attend at certain centres at least fortnightly, or as may be arranged, on days and at hours fixed by the Department, and advertised by them in the district.

Subsidise Veterinary Surgeons must also attend when required at the residence of farmers entitled to the benefits of this scheme.

The following scale of fees will apply:—
 Advice at headquarters or dispensary, is, per case.

Simple operations at headquarters or dispensary, 1s. per case.

Severe operations at headquarters or dispensary, 2s. 6d. per case for

persons whose valuation is £5 or under, and 5s per ease for persons whose valuation exceeds £5 but does not exceed £10.

Inoculation at headquarters or dispensary, is, per case.

Attendance at farmer's residence, is, per £ of valuation, provided the

minimum fee is not less than 2s. 6d.

Double fees may be charged after sunset.

8. Medicines surplied by the Veterinary Surgeon to persons entitled to

the benefits of this scheme shall be charged for in addition at reasonable prices.

9. Subsidised Vetezinary Surgeons will be required to keep at their headquarters and at each dispensary a record of the number and the nature of the cases treated under this scheme, the fees charged therefor, and the

amount charged for any medicines supplied.

10. The Department reserve the right to ask each Veterinary Eurgeon subsidised under this scheme to give public lectures on veterinary hygiene

at a fee to be arranged.

11. The work of each subsidised officer under this scheme shall be subject to inspection by the Department from time to time.

12. The subsidy will be paid at the end of each quarter.

Scheme No. 23.
DEPARTMENT OF AGRICULTURE AND TECHNICAL

INSTRUCTION FOR IRELAND.

SCHEME FOR ENCOURAGING THE BREEDING OF IRISH

DRAUGHT HORSES.

1. The objects of this scheme are to increase the number and to improve

2. The type of animal it is desired to encourage is one free from all trace of English or Soothe eart horse blood, standing not less than 1.52 hands high, with short, clean, flat legs, well set joints and good feet, good heads and tein, well slid back shoulders, and displaying throughout its conformation a sufficiency of power to warrant it doing general farm and barness work. The action should be free and light stepoing.

3. At centres and on dates of which due notice will be given, shows of marcs of the Irish Draught type will be held by the Department. Subject to the provisions of this scheme, marcs selected at these shows as sound and sariable for breeding will be awarded prizes of \$5 (Five Pounds) each.

A. Selected marss must be entered on the prescribed form by their owners in a Register to be called the Irish Draught Horse Register, which will be kept by the Department. The forms for the purpose may be obtained free on application to the Department.

5. The Department will issue annually a Register of Stahions of the Irish Draught type, to be selected in accordance with the regulations for the registration of stallions under the Department's general Horse Breeding

Scheme.

6. Fillies out of marcs ontered in the Register and got by a registered first Draught stallion will, when two years old, be eligible for entry in that A limited number of such registered fillies, selected by the Department and Instance of the Registered fillies, selected by the Department and rotained for service by an approved registered first Draught stallion, will be awarded, on such conditions as the Department may presentibe, a

remium of £20 per annum for not more than five seasons provided a live ical resulting from such service during the preceding year is produced during each of the five seasons in question.

7. Colts out of marse entered in the Register and got by registered Irish Draught stallions will, on inspection as two-year olds, be purchased by the

Department for a sum of not less than 2200 each provided they are passed by the Department as sound and suitable for registration. 8. The Department will, on the production of the necessary wouchers, refund the amount of the service fee and the cost of sending for service by a registered Irish Draught stallion each mare entered in the Register. 9. In future a portion of the Department's grant in respect of agricul-

tural shows will be ear-marked for classes of marcs entered in the Register, and for the progeny of such marcs.

10. The decision of the Department in all matters relating to this scheme

 The decision of the Department in all matters relating to this scheme shall be final.
 December, 1910.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

# REVISED SCHEME OF AGRICULTURAL EXPERIMENTS.

These experiments are intended only for those counties in which an agricultural instructor has been appointed for the purpose of personally attending to all the details of selecting and measuring the land, sowing the seed, applying the manure, weighing the crops, and tabulating and writing a report on the result.

Agricultural instructors should be specially careful not to undertake experiments at too many centres, as the amount of work possessary is much greater than is supposed by those who have no experience of field experiments. Demonstrations with seeds and measures may be undertaken at a much larger number of centres. Before commencing field experiments and demonstrations, each instructor

must submit to the Department his proposals for the year.

In all cases seeds and manures must be ordered by the instructor, and paid for by the County Committee.

As early as possible, after the close of the season, tabulated results of the experiments must be sent to the Department, and where these are presented in a concise form, accompanied by brief and carefully prepared notes, the same may be published by the County Committee, provident the approximation of the properties of the properties

These plots are intended as object lessons to farmers in the cultivation, manuring and secting of land, and should be labelled to shet an ordinary observer may be able easily to assertain what they are intended to show. One label will suffice for each demonstration plot, but in the case of nexperiment which includes several plots, a larger label stating the general character of the experiment should be erected in addition to the smallest character of the experiment of the experiment. The labels should be expected or visiting the westless. We obtain that the experiment. The labels should be capable of resisting the westless than the experiment.

below, but the instructor may include such additional plots as local conditions render advisable. In the variety tests instructors are required to include all the varieties specified in each list. It is not absolutely necessary to have both a manurial and a variety test

It is not absolutely necessary to have both a manural and a variety test with any particular crop. One or other, or both, may be omitted at discretion.

#### SCHEME OF THE EXPERIMENTS.

All the experiments with the exception of those numbered II., IX.. X. XIII., and XVI. (introduced in 1998), have been carried out annually since 1992, some slight modifications having been made in 1996 and 1999.

# I.—OAT CROP (Manurial Test. Old Series). Size of plots, one-tenth of a statute acre.

The following kinds and quantities of manures will be used per statute acre :—

No. or	PLOT.	No.	or l	PLOT.		
	No manure.					of Ammonia
2.	1 cwt. Sulphate of Ammoni	ia. 5			Superpho	sphate.

3. 3 cwt. Superphosphate. (3 cwt. Kamit
4 1 cwt. Superphosphate. (5 cwt of mixture of artificials
made up in same proportions
as for Plot 5.

. II.—OAT CROP (Manurial Test. New Series), Size of plots, one-tenth of a statute acre.

The following kinds and quantities of manure will be used per statute acre:

No. or PLOT.

No. or PLOT.

1. No manure.

(1 cwt. Sulphate of Ammonia.

(2 cwt. Superphosphate.

(2 cwt. Superphosphate.

(1 cwt. Sulphate of Ammonia.

(2 cwt. Kainit.

(1 cwt. Sulphate of Ammonia.

(2 owt. Kainit.

5. 3 owt. Superphosphate.
(3 owt. Kainit.
(1 owt. Sulphate of Ammonia.
3. 3 owt. Superphosphate.
6. 3 owt. Superphosphate.

(2 cwt. Kainit. (4 cwt. Kainit.

III .- OAT CROP (Variety Test).

Size of plots not less than one-eighth or more than a quarter of a statute The following varieties to he tested :--No. of Plot.

No. of Plot. 1. Potato. 2. Black Tartarian.

5. Tartar King. 6 Banner. 3. Ahundance. Any other variety.

Waverley. IV.—BARLEY CROP (Manurial Test).

Size of plots, one-tenth of a statute acre.

The kinds and quantities of manure will he the same as for Oats (see above).

V .- BARLEY CROP (Variety Test). Size of plots, not less than one-eighth or more than a quarter of a statute

The following varieties to he'tested :-No. OF PLOT-No. of Plot. 3. Any other variety.

No. of Plot.

No. of Plot.

4. White Queen.

Any other variety (preferably

Square-head Master).

15 tons Farmyard Manure. 4 cwt. Superphosphate.

1 cwt. Sulphate of Ammonia.
 2 cwt. Kainit.

15 tons Farmvard Manure.

7. 5 cwt. of mixture of artificials

made up in same proportions

1. Archer's Chevallier. 2. Goldthorpe.

VI.—WHEAT CROP (Variety Test).

Size of plots, not less than one-eighth or more than a quarter of a statute

The following varieties may be tested:-No. or PLOT.

 Red Fife. Red Chaff White. White Stand-up.

VII.—TURNIP CROP (Manurial Test with Farmyard Manure.

Old Series).

Size of plots, one-twentieth of a statute acre-The following kinds and quantities of manures will be used per statute acre:--

No. or PLOT. 1. No manure (size of this plot, one-fortieth of a statute acre). 2. 20 tons Farmvard Manure.

3. 15 tons Farmyard Manure. 4. 15 tons Farmyard Marture. 4 cwt. Superphosphate. (15 tons Farmyard Manure. 5. 4 cwt. Superphosphate.

( 1 cwt. Sulphate of Ammonia.

as for Plot 6. VIII .- TURNIP CROP (Manurial Test withour Farmyard Manure.

Old Series). Size of plots, one-twentieth of a statute acre-The following kinds and quantities of manures will he used per statute

acre :--No. of PLOT. No. or Plot. No manure (size of this plot, (4 cwt. Superphosphate. one-fourth of a statute acre). 4. 1 cwt. Sulphate of Ammonia.

2. 4 cwt. Superphosphate. (3 cwt. Kainit. 3. 4 cwt. Superphosphate. 1 cwt. Sulphate of Ammonia.

(6 cwt. Superphosphate. 11 cwt. Sulphate of Ammonia (44 cwt, Kainit,

### IX.—TURNIP CROP (Manurial Test with Farmyard Manure. New Series).

# Size of plots, one-twentieth of a statute acre.

No.	OF PLOT-	No.	or Pr			
1.	15 tons	Farmyard Manure.	, (15	tons	Farmyard M Basic Slag.	fanure
	115 tons	Farmyard Manure. Superphosphate.				
2.	4 cwt.	Superphosphate.	a (15	tons	Farmyard I Basic Slag.	Manure
	f15 tons	Farmvard Manure.	0. 1 8	ewt.	Basic Slag.	

3 [5 cwt. Superphosphate.
4 [15 tons Farmyard Manure.
5 cwt. Superphosphate.
6 cwt. Superphosphate.

X.—TURNIP CROP (Manurial Test without Farmyard Manure,

New Series). Size of Plots, one-twentieth of a statute acre.

#### No. of Plot. No. of Plot. (4 cwt. Superphosphate. (4 cc

(4 cwt. Superphosphate.
1. 1 cwt. Sulphate of Ammonia.
(3 cwt. Kainit.
(5 cw. Superphosphate (5 cwt. Basic Slag.
(1 cwt. Sulphate of Ammonia.
(3 cwt. Kainit.
(5 cwt. Basic Slag.

(5 cw. Superphosphate (5 cwt. Basse Slag 2. 4 cwt. Sulphate of Ammonia, (3 cwt. Kainit. (5 cwt. Kainit. (6 cwt

(6 cwt. Superphosphate.
3. 1 cwt. Sulphate of Ammonia.
(3 cwt. Kainit.
(6 cwt. Basic Slag.
1 cwt. Sulphate of Ammonia.
(3 cwt. Kainit.

# XL.—TURNIP CROP (Variety Test). Size of plots, each four ridges full length of field.

The following varieties to be tested:-

SWEDES.
No. of Plot.
No. of Plot.
Set of All.
Set of All.
Sweden.
No. of Plot.
Stelephant
Stelephant
Stelephant
Stelephant
Stelephant
Stelephant
Stelephant

2. Best of All. 6. Incomparable Green 1
3. Magnum Bonum. (Garton.)
4. Triumph. 7. Any other variety.

# YELLOW TURNIPS.

9. Centenary. 11. Any other variety, 10. Aherdeen Green Top.

XII.—MANGEL CROP (Manuria) Test. Old Series).
Size of plots, one-twentieth of a statute acre.

The following kinds and quantities of manures will he used per statute acre:—
No. or Prov. No. or Prov.

No. or Prof.

No manure (size of this plot, one-fortleth of a statute acre). 5. 4 cwr. Superphosphate. 2 cwt. Superphosphate. 2 cwt. Superphosphate. 4 cwt. Suphate of Ammonia. 4 cwt. Kainit.

2 ows. Superphosphate.
4 owt. Superphosphate.
5 ows. Saint.
6 ows. Kaint.
7 ows. Kaint.
7 ows. Kaint.
7 ows. Kaint.
7 ows. Kaint.
8 ows. Kaint.
9 ows. Kaint

20 tons Farmyard Manure, 4 cwt. Superphosphate.

7. 4 owt. Salt. 2 owt. Nitrate of Soda (to be applied after thinning in two dressings).

```
XIII.—MANGEL CROP (Manurial Test. New Series).
Size of plots, one-twentieth of a statute acre.
```

No. or PLOT.
1. 20 tons Farmyard Manure.
20 tons Farmyard Manure.
21 a cut & Superholophate.
4 cut & Sult.
20 tons Farmyard Manure.
21 cut & Sult.
22 tons Sult.
23 tons Surpayed Manure.
24 cut & Sult.
25 tons Farmyard Manure.
26 tons Farmyard Manure.
27 tons Farmyard Manure.
28 tons Farmyard Manure.
29 tons Farmyard Manure.
20 tons Farmyard Manure.
21 cut & Sult.
22 cut & Sult.
23 cut & Sult.
24 cut & Sult.
24 cut & Sult.
25 cut & Sult.
26 cut & Sult.
26 cut & Sult.
27 cut & Sult.
28 cut & Sult.
28 cut & Sult.
29 cut & Sult.
20 cut & Sult.
21 cut & Sult.
22 cut & Sult.
23 cut & Sult.
24 cut & Sult.
24 cut & Sult.
25 cut & Sult.
26 cut & Sult.
26 cut & Sult.
27 cut & Sult.
28 cut & Sult.
29 cut & Sult.
20 cu

4 cwt. Superphosphate.
2 cwt. Sulphate of Ammonia.
4 cwt. Salt.
20 tons Farmyard Manure.
5 cwt. Superphosphate.
2 cwt. Sulphate of Ammonia.
2 cwt. Sulphate of Ammonia.
2 cwt. Sulphate of Ammonia.

4 cwt. Salfs.

20 tons Farmyard Manure.
4 cwt. Superphosphate.
2 cwt. Sulphate of Ammonia.
6 cwt. Salt.

XIV.—MANGEL CROP (Variety Test). Size of plots, each four ridges full length of field.

The following varieties to be tested:—

No. or PLOT.

1. Yellow Globe.

2. Prize Winner.

3. Golden Tankard.

Any other variety.

XV.—POTATO CROP (Manurial Test. Old Series).

Size of plots, one-twentieth of a statute acre.

The following kinds and quantities of manures will be used per statute

The following kinds and quantities of manures will he used per sta acre:

No. or Plot.

No. or Plot.

6. Of PLOS.

1. No montre (size of this pNo. or PLOS.

1. No montre (size of this pNo. or PLOS.

2. 20 tons Farnyard Manure.

2. 20 tons Farnyard Manure.

2. 15 tons Farnyard Manure.

4. 15 tons Farnyard Manure.

4. 15 tons Farnyard Manure.

4. 10 tons Farnyard Manure.

5. 1 tons Farnyard Manure.

6. 10 tons Farnyard Manure.

7. 1 tons Farnyard Manure.

8. 10 tons Farnyard Manure.

1. 1 tons Farnyard Manure.

1. 1 tons Farnyard Manure.

(15 tons Farmyard Manure.
1 cwt. Sulphate of Ammonia.
1 cwt. Sulphate of Potash.

XVI.—POTATO CROP (Manurial Test. New Series).
Size of plots one-twentieth of a statute acre.

No. or PLOT.

1. Is to nos Farmyard Manure.
[15 tons Farmyard Manure.
2. 3 over Superphosphate.
1. cvt. Muriste of Potach.
[1 tons Farmyard Manure.
3. developphosphate.
4. evt. Superphosphate.
5. developphosphate.
4. developphosphate.
5. developphosphate.
6. de

4 cwt. Superphosphate.
1 cwt. Sulphate of Ammonia.
1 cwt. Muriate of Potash.
(15 tons Farmyard Manure.
(15 tons Farmyard Manure.

1 owt. Superphosphate.
1 owt. Sulphate of Ammonia.
1 cwt. Muriate of Potash.
7. 4 cwt. Superphosphate.
1 cwt. Sulphate of Ammonia.
1 cwt. Muriate of Potash.

(15 tons Farmyard Manure. 4 owt. Superphosphate. 1 cwt. Sulphate of Ammonia. 2 cwt. Muriate of Potash.

XVII.-POTATO CROP (Variety Test). Size of plots, one-twentieth of a statute acre.

The following varieties to be tested :-Mid-Season. Maincrop.

No. of Plot. No. of Plot. 9. British Queen. 1. Un-to-date. Abundance. 2. Duchess of Cornwall.

11. Any other variety. 3. Factor. 4. Irish Queen.

5. Shamrock, 6. White City. 7. Old Champion.

8. Any other variety. XVIII .- POTATO CROP (Boxing Test). Size of plots, one-twentieth of a statute acre.

No. or Plot. "Seed" boxed before December 1st.

2. Unsprouted seed.

XIX .- POTATO CROP (Spraying Test). Size of plots, one-tenth of a statute acre-The following will be compared :--

(120 gallons of mixture to be applied per statute acre at each spraying). NO. OF PLOT. 1. Unsprayed.

2. Effect of a 1 per cent, lime or Bordesux mixture, double application. 3. Effect of a 2 per cent. lime or Bordeaux mixture, single application. Effect of a 2 per cent, lime or Bordeaux mixture, double application. Effect of a 1 per cent. sods or Burgundy mixture, double application.

Effect of a 2 per cent. sods or Burgundy mixture, single application. 7. Effect of a 2 per cent. soda or Burgundy mixture, double application-XX.—DESTRUCTION OF CHARLOCK (PRESHAUGH) AND

OTHER WEEDS. (Spraying Test). Size of plots, one-tenth of a statute acre.

The following solutions will be tested :---

NO. OF PLOT.

 Unsprayed.
 50 gallons 3 per cent. Sulphate of Copper. 3. 50 gallons 4 per cent. Sulphate of Copper.

XXL-MEADOW HAY CROP (Manurial Test for one year). Size of plots, one-twentieth of a statute acre.

The following kinds and quantities of manures will be used per statute acre :--

No. of Prot. No. OF PLOT. 1. No manure. (1 cwt. Nitrate of Soda.

2, 10 tons Farmyard Manure. 2 cwt. Superphosphate. (2 cwt. Kainit. 3. 1 cwt. Nitrate of Soda. (1 cwt. Nitrate of Soda. (1 cwt. Nitrate of Soda.

2 cwt, Superphosphate, 6. 2 cwt. Superphosphate. 2 cwt. Kamit (applied not later than Nov. 30th).

## XXII.—IMPROVEMENT OF SECOND CLASS PASTURE.

Improvement to be estimated by Observation. Size of plots, one-quarter of a statute acre.

The following kinds and quantities of manures may be used per statute

acre :--No. of PLOT. 1. 5 ewt Basic Slag 2 (5 cwt. Basic Slag. 12 cwt. Kainit. 3, 10 cwt. Basic Slag.

No. of Plot. 4. (10 cwt. Basic Slag.

2 cwt. Kainit. 5. 5 cwt. Potassic Superphosphate. 6 10 cwt. Potassic Superphosphate,

#### XXIII.—INFLUENCE OF SEED MIXTURES IN FORMING PASTURE.

Land relected to be left in grass for not less than two years. Size of plots, one-tenth of a statute acre.

#### The following mixtures may be tested:-Plot 1.

1 bushel Italian Rye Grass (22 lb. the bushel).

bushel Perennial Rye Grass (28 lb. the bushel). 4 lb. Red Clover.

2 lb. White Clover.

## Plot 2.

1 bushel Perennial Rye Grass (28 lb, the bushel).

bushel Italian Rye Grass (22 lb, the bushel). 4 lb, Red Clover.

# 2 lb. White Clover.

Plot 3 I bushel Meadow Fescue (29 lb, the bushel)

1 bushel Italian Rve Grass (22 lb. the bushel).

4 lb. Red Clover. 2 lb. White Clover.

## Plot 4.

busbel Perennial Ryc Grass (28 lb. the bushel), bushel Italian Rye Grass (22 lb. the bushel).

3 lb. Cocksfoot. 3 lb. Timothy.

3 lb. Meadow Fescue. 3 lb. Red Clover

2 lb. Alsike Gover.

2 lb. White Clover. Plot 5.

At the discretion of Instructors the following mixture (Elliot's) may be tested, but only on poor, thin land :-

10 lb. Coeksfoot. 5 lb, Meadow Fescue

4 lb. Tall Fescue.

3 lb. Tall Oat Grass. 1 lb. Hard Fescue.

lb. Rough Stalked Meadow Grass.

b. Golden Oat Grass.
3 lb. Italian Rve Grass. 2 lb. White Clover

1 lb. Alsike Clover.

2 lb. Late Flowering Red Clover, 2½ lb. Kidney Vetch.

3 lb. Chicory. 8 lb. Burnet.

1 lb. Sheep's Parsley. 1 lb. Yarrow.

[N.B.—It should be carefully noted that the Superphosphate, Basic Slag, Sulphate of Portash, and Muriate of Potash used in these experiments must be High Grade. Low Grade Manures should not be used.]

DEPARTMENT OF AGRICULTURE AND
TECHNICAL INSTRUCTION FOR IRELAND,
UPPUB MERSION STRIEFT, DUBLIN,
January, 1911.
No. 24308-1910.

Weeds and Agricultural Seeds (Ireland) Act, 1909.

Srn,-As intimated in the circular-letter in regard to the provisions of Part 1 of the above Act, addressed to you by the Department in December. 1909, instructions were given to the Department's agricultural officers to sample the stocks of seed exposed for sale in the shops and stores of merchants engaged in this trade. Large numbers of samples so taken were tested for purity and germination at the Department's Seed Testing Station. The results of these tests show that at least 65% of the seeds sampled were distinctly unsatisfactory for agricultural purposes. The Department are empowered under the Act to publish, in any manner they think fit, the results of such tests, giving the names and addresses of the persons upon whose premises the samples were taken, and those of the persons from whom the seeds were stated to have been procured. They are, however, reluctant to exercise this power at the present stage, but would warn all persons engaged in the sale of agricultural seeds that, if quantities of seeds of an unsatisfactory nature continue to be sold in future seasons, they will be obliged to publish, without further notice, the results of the tests, with full particulars as above mentioned.

rariculars as above mentioned.

The Department would once more appeal to all vendors of agricultural

seeds to co-operate with them in their efforts to place and maintain the trade in this country on a high level in every respect.

It is felt that much could be effected towards that end if merchants would converience preserves each in selection of seeds and would absolutely deciding to stock inferior stuff, such as old seeds remaining over from previous control of the seed of the seed of the seeds of the seed of the seeds of the s

In Merchants, helphespers, and others will be haying their stock of seeds for the sensing seems very shortly, and the Department would attently impress upon them the need for ensuring that department would attend the mode of the sensing the seed of the sensing the seems of the product for wholesals firms with none but the best. They should request the wholesals firms with whom they deal to supply them with a statement of the preemisers of the seed offender fare also. Most of the promote of the seeds offender fare also. Most of the promote farm with the seed offender fare also. Most of the promote farm of the seeds of the seeds and the promote farm of the seeds of the seeds and the seeds of the seed

your request, the Department will supply, on application, a list of firms in this country who are prepared to give such statements to their customers.

I am Sir, Your obedient Servant, T/ P. Gill. Secretary.

To the Person or Firm named in the Address.

> DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND,

UPPER MERRICN STREET, DUBLIN, 31st March, 1911. No. A. 4111-11.

Weeds and Agricultural Seeds (Ireland) Act, 1909.

Sir .- I have to advert to the Department's circular-letter of the 10th December, 1909 (No. 24888-09), copy herewith, on the above subject, and to draw the attention of your Council to the provisions of the Act in so far as they relate to the prevention of the spread of noxious weeds. In suggesting to your Council the desirability of consenting to an Order being made by the Department under Part I of the Act, I have to state that such Orders were in force in sixteen counties last year, and that the hearty en-operation of agriculturists in the counties concerned enabled the Orders to be administered without causing any friction.

Kindly inform the Department at an early date of the decision of your Council in the matter.

A suggested Form of Consent is enclosed. I am.

Sir, Your obedient Servant, T. P T. P. GILL. Secretary. The Secretary of each County Council.

WEEDS AND AGRICULTURAL SEEDS (IRELAND) ACT. 1909.

SCHEDULE of Counties in which Noxious Weeds Orders have been made under the Act, and of the plants which have been specified as noxious weeds in each case.

Noxious Weeds Specified. Counties. Ragwort, charlock, coltafoot, thistle, dock. Antrim. Ragwort, thistle, dock Armagh. ... Charlock, coltsfoot, thistle, dock Down. Dublin. Ragwort, coltsfoot, thistle, dock. Ragwort, charlock, coltsfoot, thistle, dock. Fermanagh, Ragwort, charlock, coltsfoot, thistle, dock. Kerry, ... Kildare, Ragwort, coltsfoot, thistle, dock. Kilkenny, ... Thistle.

Thistle, dock-King's. Ragwort, charlock, coltsfoot, thistle dock. Limerick. . . Londonderry Thistle, doels, Louth, ... Ragwort, coltsfoot, thistle, dock. Ragwort, charlock, coltsfoot, thistle. dock. Meath. Monaghan, . Ditto.

Oucen's, ... Ragwort, coltsfoot, thistle, dock. Roscommon, Ragwort, charlock, coltafoot, thistle, dock. Tipperary (N.R.) . Ragwort, charlock, thistle. Ragwort, charlock, coltsfoot, thistle, dock. \*\* (S.R.) ..

Ragwort, charlock, coltafoot, thistle, dock. Westmeath, County Borough. Dublin, Ragwort, charlock, coltsfoot, thistle, dock, Belfast, Ditto.

## TECHNICAL INSTRUCTION.

#### PROGRAMME OF EXPERIMENTAL SCIENCE, DRAWING, MANUAL INSTRUCTION. AND DOMESTIC ECONOMY FOR SECONDARY SCHOOLS.

1.

EXPLANATORY CIRCULAR TO MANAGERS AND PRINCIPALS

OF DAY SECONDARY SCHOOLS. DEPARTMENT OF AGRICULTURE AND

> TECHNICAL INSTRUCTION FOR IRELAND. UPPER MERRION STREET, DUBLIN, July, 1911.

SIB OR MADAM. The Regulations for the teaching of Experimental Science, Drawing,

Manual Instruction and Domestic Economy in Day Secondary Schools have been re-cast for the Session 1911-12. The more important alterations which have been introduced are ;-(1.) A Course in Physical and Commercial Geography has been sub-

stituted for that in Geology in the Special Courses,

(2.) Students who have worked satisfactorily through the Third Year Syllabus of Physics will be permitted to proceed to the Fourth Year Syllabus of Mechanics, without having previously

worked through the Third Year Syllabus of the latter subject. (3.) Students who are over eighteen years of age on the lat day of June in the calendar year in which the Course is entered upon

will be ineligible for grants. (4.) Grants will be payable, under certain conditions, upon the attendance of students at instruction in a Fourth Year

Syllabus during a second year. The Syllabuses of the courses of instruction, as well as the Prefatory

Note to the Syllabuses in Experimental Science, may be obtained

separately for distribution among teachers. The Department have observed that it has been a practice in some schools to allow students under twelve years of age to attend instruction in the First Year Syllabuses of the Preliminary Course. Such students have then, in the following Session, been permitted to enter the classes following the Second Year Syllabuses, and grants have been claimed upon the instruction afforded at the rates appropriate to the School year. The Department are of opinion that, as a rule, students under twelve years of age are not capable to taking full advantage of instruction in the First Year Syllabuses, and they will, therefore, require that students attending classes in the First Year Syllabuses, before completing their twelfth year, shall repeat those Syllabuses before proceeding to the Course

for the Second Year. In regard to the case of pupils who may, under Regulation III., 16, be working a second time through any Syllabus of the Programme, attention is directed to the fact that pupils who are capable of profiting by promotion to a higher course should not be permitted to repeat the previous year's course. The Department will withhold grants in respect of instruction given to pupils who may repeat the course of any year if, in the opinion of the Inspector, those pupils had made such progress as would enable them to take, with advantage, the work prescribed for this subsequent year, and in no case will pupils who were presented to the Department's inspectors for the practical text for Honouro Candidate, in connection with the escaledance of the contract of the contract of the same course.

"The Department will require that Form S. 121, containing a list of all students isolitowing their Programme who are registered as in attendance at instruction on the lat November. This form will be dealt with by the Department and returned to the Management of Management o

the Intermediate Education Board.

The efficiency of instruction viii, as hitherto, be tested by imspection, so a rule, without notice. It is, however, proposed that Speakil Inspections of a more thorough character. He had not been a superior of a more thorough character. It is intended that such inspections add not, as a rule, be laid more frequently than once in three years for any one school. During the latter part of the school measure on the proposed proposed to the contract of the proposed process of the proposed less that the process of the programme at the Intermediate Examinations. This visit may, however, At any visit it will be within the discretion of the Inspector to test any or all of the chasses by practical exercises in the laboratory, or by wise or by a combination of these methods, do, by virtue assuming the contraction of the graphen to test any

It should be observed that the rates of payment may be increased by one-tent her reduced by one or more tenths, as the Department, on consideration of the Inspector's report, may determine. Reduction by more tenths than one will be exceptional. In cases in which such exceptional treatment is necessary, the Department will consider the distribility of removing the School from the list of those sided by their

grants.

guardas qualifications required of teachers other than those of Physical and Commercial Gospraphy are set out in Cicculars 18, 23, 24, and 25. The Department will this year recognise, as qualified to give instruction in Physical and Commercial Geography (Third Year Syllabas), those teachers who have successfully attended the Summer Course of Instruction now being held in the subject.

The Department reserve the right to withdraw recognition of a teacher's qualifications should circumstances occur to render such a course desirable.

desirable.

Summer Courses of Instruction for Teachers will be continued as heretofore, but it is hoped that they will shortly have satisfied the need

of qualifying teachers, and will develop into "Post Graduate" Courses on special subjects for those already qualified.

The details of the arrangements by which schools and pupils may obtain recognition under the regulations of the Intermediate Education Board for proficiency in Experimental Science, Drawing, and Domestic Economy, as well as the conditions required for a pass in these subjects, are published in the Rules of that Board.

I am,
Sir or Madam,
Your obedient Servant,
T. P. Gill,
Secretary.

п.

REGULATIONS FOR THE ADMINISTRATION AND DISTRIBUTION OF GRANTS FOR EXPERIMENTAL SCIENCE, DRAWING, MANUAL INSTRUCTION, AND DOMESTIC ECONOMY IN DAY SECONDARY SCHOOLS IN IRELAND.

#### L SUBJECTS.

 EXPERIMENTAL SCIENCE shall mean such a system of instruction in Physical and Natural Science as will involve the greater part of the work being done by the pupils themselves in an approved laboratory.
 DRAWING shall mean a system of instruction in Free and Mechanical

Drawing, Design and Modelling,

3. MLNTAX. Decruterrory shall include instruction in the use of tool, employed in Wood or Metal-weeking, and drawing in connection thesewish. 4. Donuserro Econoux shall include instruction in Cooleary and Housewing, and may include Laundry-work or any other form of practical instruction in household management of which the Department may approve.

# II. Courses of Instruction.

The Courses of Instruction include :—

(a) A PRELIMINARY (TWO YEAR) COURSE, which is obligatory on all pupils and on all schools claiming grants under these regulations.

(b) SPECIAL COURSES, and

(c) AUXILIARY COURSES.

6. Time PREILIMANY (TWO YAMA) COURSE may vary according to the character of the school ; but it shall include Experimental Science and Drawing. Not less than three hours per week shall be devoted to Experimental Science, and not less than one hour per week to Drawing. In school: delaining grants for more than six hours instruction in the Preliminary Course in any week, Hamal Instruction or Demostic Economy must form part of the Arsiminary Course; and, in such cases, at least those subjects, and per week must be devoted to Instruction in one of these subjects.

these subjects.\*
In Schools also which do not provide instruction in one of the Special In Schools also which do not provide instruction in one of the Special In Schools also special Course las not been recognised by the Department for all the Special Internations and the Special Internation of the Special Internation of the Special Internation International Internation Inter

per week is devoted to instruction in those three subjects.

7. The following are the SPECIAL COURSES. Grants shall not be

problem on any one pull in respect of more than three of these Courses:

(1) Physics: Third Year—General Physics, Heat and (optional)
Electricity and Magnetism; fourth year—(a) Wave Motion,
Sound, and Light and Radiant Heat, or (b) Electricity and
Magnetism. (Enter or both fourth year year)

taken. In the latter case grants would be payable on any one pupil in respect of only one other course.) (2.) Chemistry: Third year—Inorganic Chemistry; fourth year—

Inorganic Chemistry, with some Elementary Organic Chemistry.
(3.) Mechanics: Third year syllabus; fourth year syllabus.
(4.) Botsany: Third year syllabus; fourth year syllabus.

 (5.) Physiology and Hygiene: Third year syllabus; fourth year syllabus.
 (6.) Physical and Commercial Geography: Third year syllabus; fourth

(b.) Physical and Commercial Geography: Third year syllabus; fourth
year syllabus.
 \*Attendances at Special Inspections may be claimed on, in addition to the

(7.) Domestic Economy (Special Course): Third year syllabus; fourth year syllabus.

(8.) Drawing: Third year syllabus; fourth year syllabus.

Managers desiring to have the Special Courses of their schools recognized will be required to show that a fair proportion of the pupils who have worked through the Freliminary Course are in attendance at the Special Courses; that not less than three hours per week are devoted to instruction in each Special Course; and that at least one-

third of the time is assigned to theoretical instruction.

Not more than aix hours per week may be considered when computing the total number of hours of attendance at any one Special Course.\*

8. The AUXILABNY COURSES, include Manual Instruction and Demestic Beomony, which may be taken in any year, and may be taken in addition in addition.

Demestic Economy may not be taken as a Special Course and also as on Auxiliary Course by the same pupil in the some year.

6. The subjects of the Preliminary, Special and Auxillary Courses shall be followed in the order persented in the Department's published Sydaheses, and pupils may not be admirted to any course, who have not worked astishectorily through the precoding, or equivalent course. The third year Sylfabus of Physics is, hoseever, accepted as the quitalent of the third year Sylfabus of Physics is, hoseever, accepted as the quitalent of the third year Sylfabus of Steaders, and a student who has worked by the third year Sylfabus of Machines, and the students of the subject to the subject t

#### III. GRANTS.

lst day of June in the calendar year in which the course is entered upon,

and who have completed an education which would entitle them to be placed in the Sixth Class of a school under the Board of National Education in Ireland.

12. Grants shall be payable in respect of attendances made by the pupils of those schools only which have been approved by the Department.

13. Grants on the attendance of duly audified pumils will be made

for each hour of instruction per week throughout the school year, according to the following scale:—

EXPERIMENTAL SCHECE.—10s, for the first year of the course; 12s. 6dfor the second year of the course; 15s. for the third year of the course;

and 20s. for the fourth year of the course.

Domestic Economy (as a Special Course).—8s. for the third or fourth year of the course.

Dawrro.—6s, for the first year of the course; 6s, for the second year of the course; 7s, for the third or fourth year of the course.

MANUAL INSTRUCTION AND DOMESTIC ECONOMY (Auxiliary Courses).— 6c. for the first year of the course; 7s. for the second year of the course; 8s. for the third or fourth year of the course.

14. The numbers on which grants for each subject are to be calculated, at the foregoing rates, shall be determined by adding together the total number of hours of attendance made by all the punjis in that subject (at the approved time-table hours), and dividing by forty, the normal selbod vear being recarded as of forty weeks.

\* Attendances at Special Inspections may be claimed on, in addition to the hours set apart in the general time-table.

15. The avilabuses of instruction, "first year," "second year," etc., correspond with the "first year," "second year," etc., rates of payment. 16. Grants may be naid in respect of the attendances of any one puou for not more than two years in any Syllabus. Payments will not be made in respect of any one pupil for more than five years in all. It is not

obligatory that the claims should be made in consecutive academic years. 17. The grant to be made in respect of any subject of any year in

accordance with the foregoing regulations, may, in exceptional cases, be increased by one-tenth when the Inspector of the Department is of opinion that the work is of conspicuous merit. It may also be reduced by one or more tenths for defects of equipment, or of organisation, or of instruction, or for any other cause which may tend to lessen the efficiency of the work done.

#### IV. CONDITIONS OF GRANTS.

18. The courses of instruction should begin in August or September of any year and must be continuous throughout the school year. The hours per week devoted to the course must be fairly distributed throughout the week; in exceptional circumstances, where previous application has been made, the Department may sanction another arrangement. Deviations from the approved time-table, unless previously sanctioned, will be regarded as a serious irregularity.

19. Claims for attendance grants may be preferred on behalf of those students only who have punctually and regularly attended instruction in all the obligatory subjects of the Preliminary, or of a Special, course. Grants shall only be payable in respect of the attendance of students at Auxiliary Courses when such attendance has been regular and punctual. 20. Claims for attendance grants may be preferred on behalf of those students only who have been registered as in attendance at instruction

in each of the subjects of the course on or before the 1st day of November in any academic year. 21. Grants shall not be payable in respect of the attendances of pupils

of any school which, after working for one academic year in accordance with the Department's regulations, has not the two years' Preliminary Course in operation.

22. Grants shall not be payable in respect of attendances at Manual Instruction or Domestic Economy (Auxiliary Courses) in any year, except in the case of pupils who have attended instruction in the Preliminary Course of Experimental Science and Drawing or in one of the subjects of a Special Course, in that year, in accordance with the Regulations.

23. A student who has been paid upon in respect of the third year Syllabus of any Special Course will be ineligible for grants in a succeeding year unless he either repeats that third year Syllabus under approved conditions or proceeds to the fourth year Syllabus of the same Special

24. Grants will be made only upon a satisfactory report by an Inspector of the Department. The Inspector will satisfy himself not only that the attendances on which the claim is based have actually been made, but also that the instruction is of a class superior to that given in Elementary Schools. 25. Grants shall not be payable in respect of pupils who are reported

by the Department's Inspectors as unfit to attend the Courses in which they have been receiving instruction. 26. Pupils on the roll of a National School are not eligible for attendance

grants. V. REGISTRATION. . 27. Attendance registers will be supplied by the Department upon receipt of the form of application for recognition of the classes (Form 44 S.); attendances not registered in the manner indicated on the official

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registers, or registered before the receipt of Form S. 44, will be disregarded. A class may not be said to have begun until attendances are so registered.

#### VI. LABORATORIES.

28. Grants will not be made for instruction unless due provision is made for experimental work in Science, on the part of the pupils, in unportly equipped and approved laboratories.

# VII. DURATION OF LESSONS. .

29. Practical instruction in Science, Manual Instruction and Domestic Economy, must be given in lessons of at least eighty minutes' duration. 30. Lessons of less than forty minutes' duration will not be considered in computing the "total number of hours of attendance."

31. The minimum time per week recognised for greats on behalf of attendance at Manual Instruction or Domestic Beonomy is one and a half bour.

32. The time-table of the school 'must be arranged so as to leave sufficient time to the teacher for preparation of laboratory work.

# VIII. SIZE OF CLASSES.

33. Not more than forty pupils shall be taken at a time by one teacher for Theoretical Instruction, nor more than twenty for Practical Instruction in any subject, unless an assistant recognised by the Department, is provided. In that case the number for Practical Instruction may be increased to thirty. Instruction in Drawing may, for this purpose, be

regarded as theoretical instruction.

34. Where classes for practical instruction are small, concurrent instruction in two Syllabuses may be exceptionally allowed, but the approval

of the Department must be obtained in each case.

35. Concurrent instruction in the first and second year syllabuses of the Preliminary Course in Drawing will be allowed under one teacher where the number of pupils under instruction does not exceed thirty.

## IX. General Conditions.

36. The qualifications of the teachers and assistant trachers, and the time-table of the school must be approved by the Department.

37. Its shall be a condition of grains being made, that, except in the sone of teachers who give their services grantituously, a fixed salary shall be paid to the teachers of the classes, either in respect of these classes or of their work in the school as a whole; that a resourchalle not because the shall be shal

38. That portion of the income of a school which is derived from grants in accordance with these regulations must be applied to such purposes as shall be approved by the Department. If at any time it appears that espilication of the income is unsatisfactory, the assistance of the Department may be withdrawn. An account of the receipts and expenditure of each school in respect of these grants must be furnished.

if required by the Department.

39. The Department reserve, under these regulations, the right to withbold grants from any school conducted for private profit in which the fees are, in the Department's opinion, excessive, or which is situated

in a locality already sufficiently supplied with public institutions.

40. The decision of the Department in regard to all questions arising in connection with the payments of grants under this programme must

be recarded as final.

# PROGRAMME FOR TECHNICAL SCHOOLS AND SCIENCE AND ART SCHOOLS AND CLASSES.

# REGULATIONS FOR GRANTS.

I.—Conditions under which School sand Classes may be recognised for Grants, 1. The school or class must be under the superintendence of a Cornmittee appointed under Section 14 of the Agriculture and Technical Instruction (Ireland) Act, 1899, or other responsible body of management recognised by the Department, to whom grants will be paid.

2. Grants under these regulations will only be made in respect of schools or classes in Counties, County Boroughs or Urban Districts in

which a rate for technical instruction is raised.

3. The premises in which classes are conducted, the accommodation and equipment, and the programme of instruction, must be approved by the Department. 4. The qualifications of teachers and assistant teachers and the time-

table must be approved by the Department,

5. The managers of a school or class must make accurate returns of such particulars as are required by the Department and within the specified times.

6. The Department may from time to time require from the local Committees a report as to the provision made within their district, either by themselves or other managers, for instruction in the subjects of this programme, regard being had to the industries of the district, and the occupation of the inhabitants, and may, upon consideration of this report. recognise or refuse to recognise any further classes which may be proposed.

7. The schools and classes shall be at all times open to the Department's Inspectors, who will, from time to time, visit with or without notice, and report on the condition and suitability of the school buildings or class-rooms; the character and quality of the instruction, and its suitability to the needs of the locality; the adequacy of the teaching staff for the number of students under instruction, the progress of the students, which they may ascertain in such a manner as they may consider necessary; the method of registration; and generally as to the organisation of the school work, and the carrying out of the scheme of instruction in accordance with the Department's Regulations.

#### II. (a)-Technical Schools.

8. The authorities of each school working under this section must provide a series of suggested courses of instruction, which have grown out of a study of local industrial conditions. These courses of instruction should be made up of allied subjects, should be designed to extend over three or four years, and should be progressive in character. In the case of small schools, however, two year courses may be accepted. In addition to these in schools admitting students who possess only the minimum requirements for admission to a Technical School, an Introductory Course should be provided.

9. The courses proposed by the authorities of each school must be submitted to the Department by the 1st August, and must be accompanied by Syllabuses (in duplicate) in cases where these have not already been approved. These proposals will require the written approval of the Department. A draft of a convenient form in which to draw up the courses is set out in Appendix E.

10. The instruction should be given in evening classes, but where the Department consider that local circumstances justify the establishment

of day classes, such classes may be formed. 11. An evening class is one in which instruction begins at or after

4 p.m. throughout the week, or at or after 1 p.m. on Saturdays. 12. A day class is one in which instruction begins before 4 p.ss. throughout the week, or before 1 p.m. on Saturdays.

#### (i.)-INTRODUCTORY COURSE.

13. Introductory course classes should be of such a nature as will fit students to take up a specialised course of technical instruction. 14. The subjects of instruction in respect of which payments are made

under this division are .... (a) English.

(b) Mathematics.

(c) One or more of the following:-

Experimental Science, Drawing, Manual Work in Wood or Metal, Domestic Economy, 15. Students on whom grants are claimed must have received such an

education as would entitle them to be placed in the sixth class of a school under the National Board. 16. All students under instruction in the Introductory Course must attend instruction in each of the sections (a), (b) and (c) of paragraph

14 above. 17. Students registered in the Introductory Course will not be eligible for payments in a Specialised Course in the same session.

#### (ii.)-Specialised Course.

18. A specialised course of instruction for any student on whom payment may be claimed shall consist of a scheme of study in two or more subjects of a course approved by the Department, and extending over three or more years. In the first year of specialisation students must take up at least two

and not more than three subjects, and in subsequent years not more than three subjects.

The Department will require, as a rule, that one main subject will be continued throughout each student's course of study. The instruction received in this main subject, as well as in other subjects approved as part of the course, will be eligible for grants at the rates appropriate to the year of specialisation of the student.

In courses for women, where a student adopts a course of study in which the main subject is a subject other than in Domestic Science, and which complies with the minimum requirements as to the number of subjects to be taken, the Department will allow grants in respect of instruction in Domestic Science, provided that not more than three subjects in all are taken in any year.

19. For the purposes of grants the subjects which may be included in specialised courses of study, and on which payment may be made, are grouped as follows, but courses of study may be made up of subjects taken from different groups.

Group A .- Commercial Subjects (Section A.) Group B .- (1) Commercial Subjects (Section B.)

(2) Languages. (3) Mathematics.

Group C .- Science (Pure and Applied.) Group D .- (1) Handieraft.

(2) Domestie Science. Group E .- Art Subjects.

Group A .- Commercial Subjects (Section A.)

Commercial subjects which involve mostly mechanical operations, such as shorthand, book-keeping, copying, indexing, filing, correspondence, typewriting, and the mechanical operations concerned with postage, telegraph and banking,

Group B.—(1) Commercial Subjects (Section B.)

This group includes the study of subjects which require wider general knowledge and more intensive study than those in Group A., such as economics of industry and commerce, commercial law, accountancy, banking and currency, insurance, statistics, railway administration, and economic and commercial history and geography.

# (2) Languages.

The teaching of languages in the evening is partly a subject of general culture; is required partly for commercial correspondence, and partly for those who have to deal with the mechanisal operations of seeing books and other literature through the press. The group may include the property of the terrountaness of a locality.

#### (3) Mathematics.

Mathematical subjects, including the treatment of the subject in a practical way; such treatment, for example, as is usually given under the subject of mensuration or of practical plane and solid geometry.

# Group C .- Science (Pure and Applied).

Under pure science will be included auch aubjects as mechanics, physics, chemistry, biology, botany, zeology, physicology. Under applied science would be included navel architecture, navigation, nautical astronomy, building construction, machine construction, and other subjects truvbing systematic instruction in the underlying scientific principles, and which would be classified under such headings as:—

- Building industries.
   Metal industries.
- (3) Textile industries.
- (4) Printing and process industries.
- (5) Furniture industries.
- (6) Leather industries.
  (7) Woodworking industries.
- (8) Carriage Building industries.
- (9) Electrical industries.
  (10) Chemical industries.
- (10) Chemical industries.
  (11) Agricultural industries.
- At least half the instruction in subjects included in this group should be given under approved conditions of accommodation and equipment.

modistion and equipment.

The practical work must be so arranged as to be illustrative of the principles taught, and should not be directed to developing dexterity in the practice of trade processes.

# Group D .- Handieraft and Domestic Science.

Handicraft—manual instruction in wood and metal, woodcarving
 Household subjects, including cookery and hygiene, housewifery, laundry-work, dresmaking, millinery, needlework.

# Group E.—Art Subjects.

Drawing (free and mechanical), design, painting, architecture, modelling and applied art such as black and white illustration, goldsmitte's silversmithe's, and jewellers' work, stained glass work, mosaic, enamelling, and any other subject of applied art which a committee can show to be

required by the circumstances of their locality.

The first year of a student's course in Art must include instruction in the two subjects—free and mechanical drawing.

in the two subjects—free and mechanical drawing.

20. The total attendances of any student at any approved course of study must be fairly distributed over the subjects of the course.

21. Students registered in this section must :--

(a) have satisfactorily followed the Introductory Course, or
(b) have passed in the Junior Grade Examination of the Inter-

(b) have passed in the Junior Grade Examination of the Intermediate Education Board, or (c) be certified by the Principal or responsible teacher to have reached an equivalent satisfactory standard of education. 22 In the case of students registered under 21 (c) the following par-

ticulars must be submitted in writing to the Department's Inspector for his approval:—

(i.) any examinations passed which are recarded as equivalent.

 any examinations passed which are regarded as equivalent to (b), or
 the marks obtained at entrance examinations held in the

Technical School. (The worked papers should be retained on the school premises); or, (iii.) any special reasons for admitting students to specialised courses.

# (iii.)—Grants. (g) Evening Classes.

Specialised	Courses :-				
Year of Course,	Group A. Commercial Subjects, (Section A.)	Group B. (I) Commercial Subjects (Section B.), (2) Languages, (3) Mathematics.	Group D. Handicraft and Domestic between	Group C. Science (Pure and Applied),	Group E, Ari Subjects.
First Year .	d. 2	d. . 4	d. 4	d. 6	d. 4
Second Year	3	6	5	9	6
Third Year .	4	9	6	12	9
Fourth and subsequent years	5 .	15	6	21	12

24. The rates of grants payable in respect of each group may, in any school, upon account of conspicuous merit, be increased by one-tenth, or, upon grounds of inefficiency, be decreased by one or more tenths, as the Department, in consideration of their Inspector's report, may determine.

25. An increment for continued attendance at instruction in the case of individual students will be paid on the total attendance-hours at all subjects of an approved course, in the introductory or in the specialised

Rate of Increment for Continued Attendance.

For each hour from 21 to 40 hours, 1d. per hour , , 41 to 60 , 2d. , , , , 61 to 80 , 3d. , , , , 81 to 100 , 4d. ,

", "101 to 120 ", 5d. ",
No increment will be paid on attendance-hours exceeding 120.

## (b) DAY CLASSES.

26. Grants to Day Classes will be made at half the above rates, and no increment on account of instruction given in these classes will the payable. Not more than 400 hours' attendance in all in any one session may be claimed upon in respect of any student attending a day class.

# (iv.)-Regulations for Payment of Grants.

(See also General Regulations.)

27. Each student must be registered as in attendance at instruction in his course on or before the 1st December in any session.

28. A year's work will involve at least forty hours' instruction in the subject matter of any course of study, and students who have not satisfied this requirement may not be registered for attendance grants

in a higher course.

29. Students will be eligible for grants in the same Syllabus in a subject for not more than two School Sessions. Grants will not, however, be paid in respect of a second year's attendance in the same Syllabus should the student's attendance be claimed on generally at the rates appropriate to a higher year of specialisation.

30. Students will be eligible for grants for not more than two School Sessions at the rates for the introductory course, or for any one year of

specialisation.

31. Students will, unless in exceptional circumstances, be required to pursue the course of study which they may adopt upon entering the school. In the case of students who may, with the approval of the Department, change their course payments will be made at first year rates only in respect of the first year of specialisation in the new course, and a further change will not be approved until they have completed a satisfactory amount of instruction

in that course. 32. The attendance of teachers at day classes may be paid upon at evening rates.

# II. (b).—Technical Classes.

33. Grants at a lower rate than those set out in Section II. (A.) will be paid upon the attendance of pupils in any approved subject of instruction under the following conditions :-34. The rates of payment will be :-

(1) For Literary or Commercial Subjects ." 2d. per hour.

(2) For Art, Handicraft and Domestic Science Subjects 3d. per hour. (3) For Science (Pure and Applied) Subjects 4d. per hour.

35. Grants under this section will not be paid in respect of more than one subject for each student.

36. Domestic Science and Agricultural Science for the purpose of this regulation, will each be regarded as one subject.

37. Grants will not be paid under this Section on account of students

registered under Section II. (A.).

38. The grant on account of any Class under this Section will, as a rule, be the normal grant calculated upon the basis set out above, but the grant for any subject may, on account of conspicuous merit, be increased by one-tenth, or upon grounds of inefficiency, be decreased by one or more tenths, as the Department may decide. 39. The arrangements regulating the admission of students must be such as to exclude from a class any student, who from want of sufficient

preliminary training, or other cause, is not qualified to take advantage of the instruction given in it. The grant may be withheld on account of any students whom the Inspector reports to be thus unqualified.

40. The practical work of the students must not include a continued repetition of manipulative processes of which they have acquired a knowledge.

### III,-Teachers' Classes.

41. Where special classes or courses are established at a Technical School or Central Institution (other than a Training College) for the instruction of teachers of Primary or Secondary Schools in the subjects of this programme, in accordance with a scheme approved by the Department, grants may be paid at the rate prescribed for the third year of specialisation under Section II., 23, of this programme.

42. Payments may be made in respect of any teacher for any subject for not more than three years, and will be at the same rate for each year. 43. The amount of grant payable under these rates may in any school. upon grounds of conspicuous merit, be increased by one-tenth, or, upon grounds of inefficiency, be decreased by one or more tenths, as the Department, in consideration of their Inspector's report, may determine,

44. No increment grants will be payable under this Section. 45. The Instructors must be recognised by the Department as qualified

for this special work,

46. Proposal for the conduct of classes under this Section must be specially submitted for approval, and should include particulars as to the number and status of the teachers for whom the class or course is

organised, the proposed syllabus of instruction, and the special qualification of the teacher. 47. Classes working under this Section will be required to submit to

such examination as the Department may decide. 48. Grants will not be paid in respect of the attendance at these classes of students other than teachers actually engaged in Primary and

Secondary Schools. Monitors, and Pupil Teachers in National Schools, are not regarded as "teachers" for this purpose.

IV.—Day Schools for Apprentices and others Engaged in Business. 49. Day technical or commercial schools or classes, which are conducted

by properly constituted managers, either in conjunction with works, business houses, or technical schools, with a view to improving the conditions of local industries and commerce, and to the further training of sub-managers, foremen, tradesmen or apprentices, may be admitted for grants under this section. 50. Such schools or classes must be open on one or more days of the

week, not later than six o'clock in the evening, or than 1 p.m. on Saturdays, 51. Grants not exceeding three-fourths of the certified annual expenditure for the conduct of such schools or classes may be made by the Department in respect of students for whom an employer's certificate can be produced, showing that the students have been engaged during the session in a business, trade, or industry, or that they are indentured or properly engaged as apprentices to a firm or to an individual.

52. The expenditure must be set forth in properly audited accounts, to be accompanied by vouchers. 53. The decision of the Department as to what constitutes a legitimate

charge against annual expenditure shall be final. 54. The accommodation provided, the courses of instruction, the syllabuses of the subjects taught, the qualifications of the teachers, the time-table of instruction and the estimate of expenditure, must be

spproved by the Department. 55. The practical work must be so arranged as to be illustrative of

the principles taught, and should not be directed to developing dexterity in the practice of trade processes.

56. The amount of grants payable in respect of any school may, upon account of conspicuous merit, be increased by one-tenth, or, upon grounds of inefficiency, be decreased by one or more tenths, as the Department, in consideration of their Inspector's report, may determine.

## V .- Schools of Art.

57. Schools of Art, which provide for students, the majority of whom

are industrial, courses extending continuously over two or three years, according to a scheme approved by the Department, may be paid grants not exceeding three-fourths of the actual annual expenditure incurred in the conduct of such courses.

not exceeding three-fourths of the actual annual expenditure incurred in the conduct of such courses.

58. The expenditure must be set forth in properly audited accounts, to be accompanied by vouchers. An estimate of the expenditure must be submitted for the approval of the Department before the commence-

ment of the session.

So, The decision of the Department as to what constitutes a legitimate charge against annual expenditure shall be final.

60. No grants will be payable to Schools of Art adopting this section of the regulations, under the methods of payment set out in Sections II. and III.

61. Recognition may be withheld or withdrawn from any School of Art in which, in the opinion of the Department, the efficiency of the instruction and the number of students in attendance do not justify the

expenditure involved.

62. For the purpose of this section a School of Art must satisfy the following conditions:—

(a) The rooms and equipment must be approved by the Department, and must be wholly devoted to elementary and advanced

instruction in art.

(b) Provision must be made for drawing from life and modelling, and for instruction in ornamental and decorative art.

(c) The Principal Teacher must hold an art master's certificate or an equivalent qualification.

(d) Assistant teachers must possess qualifications recognised by the Department (vide Appendix A.).

(e) Both day and night classes must be held. The night class must meet under the instruction of the Principal Teacher for two hours for at least three nights per week during forty weeks of the year, and the day class for the same period for at least three hours per day on two days of the week.

63. The amount of grants payable in respect of any school, may, upon account of conspicuous merit, be increased by one-tenth, or, upon grounds of inefficiency, be decreased by one or more tenths, as the Department, in consideration of their inspector's report, may determine.

# VI.—Training Colleges.

64. Grants may be made for the instruction of students in training colleges in mathematics, experimental science, and drawing.
65. The rates per attendance-hour at which grants will be paid are as follows:

First Year, Second Year,

Mathematics, .	d. 2	d. 3
Experimental Science	3	41
Drawing .	2	3

66. No increments will be payable on such attendances.
67. Not more than 400 hours in all, nor more than 200 in any one of these subjects, may be allowed for purposes of grants in the case of any one student.

one student.

68. Grants in respect of any student may be claimed once only in the first year course and once only in the second year course.

69. The rates per attendance-hour may, upon account of exceptional merit, be increased by one-tenth, or, upon grounds of inefficiency, be decreased by one or more tenths, as the Department, on consideration of their Inspector's report, may determine,

70. Syllabuses of the courses of instruction must be submitted at the beginning of the session for the Department's approval.

# VII.—General Regulations.

(Applicable to all Schools and Classes conducted under this Programme).

71. Each school or class working under these regulations will be required to keep an admission register which shall show for each student :--(1) full name and date of birth,

(2) business, trade, or occupation,

(3) school or college at which the student received his general education, and standard of education attained, with particulars of highest examinations passed. (4) qualifications to enter a technical school, or class,

(5) classes attended each session in the school-

NOTE .- Suitably drafted admission forms may be made to fulfil the Depart-

ment's requirements for an admission register. In larger schools it will be found more convenient to adopt the card-index system, the particulars required being transferred from the students' admission forms. 72. The registration of students must be conducted in accordance

with the regulations set out on the official registers. Attendance registers will be supplied by the Department upon receipt

of the form of application for recognition of the classes; attendances not registered in the manner indicated on the official registers for thesession will be disregarded. A class may not be said to have begun until attendances are so registered.

73. Lessons must be of one, one-and-a-half, two, two-and-a-half or three hours' duration. Laboratory or workshop practice must be given in lessons of not less than one-and-a-half hours' duration-

74. Not more than forty students may be taken at a time by one teacher for theoretical instruction, nor more than twenty for practical instruction in any subject, unless an assistant, recognised by the Department, is provided, in which case the number may be increased to thirty. The special circumstances of large institutions will be exceptionally considered

by the Department on written application. 75. Each class in any subject must receive at least twenty hours' in-

struction in the session. 76. Grants will not be paid for less than twenty hours' attendance in

respect of any one student. In cases in which it is permissible or necessary for a student to take more than one subject, grants will not be paid on account of any subject in which less than ten hours' attendance is made.

77. Grants will not be paid on account of any attendances lost, or on account of any period during which the school is closed for epidemic illness, but where the Department are satisfied that any failure to comply with these regulations has been due to epidemic illness or other unavoidable cause, they may relax the regulations as far as may be necessary to meet the case.

78. If any of the conditions on which the grant is awarded are not fulfilled, the Department may withhold the grant, or, if they think fit, may pay the grant with or without deductions, warning the managers that a grant will not again be paid under similar circumstances.

79. Students may not be registered for grants under these regulations who are under fourteen years of age, and no student can be registered for grants under these regulations in respect of whom any grant is paid by the Department under any other regulations.

80, Grants may not be claimed under these regulations on account of any scholar on the roll of a school (day or evening) under the Board of National Education.

# VIII.—Qualifications of Teachers.

81. It is not proposed, in future, to demand the same high qualifications from teachers in small schools as from teachers in the larger technical institutes, especially in the county boroughs, nor to approve of the larger institutions employing teachers who might for economic or other reasons have to be accepted as teachers in small schools. Each application will be dealt with on its merits, bearing in mind the special circumstances of each district, and the finances of the school. Some of the certificates which will be accepted for provisional recognition by the Department are, however, set out in Appendix A.

82. The final appointment of a teacher should not be made until his qualifications have been approved in writing by the Department.

83. A register is kept by the Department containing the names of teachers who, after provisional recognition by the Department in any subject, have taught a class in that subject to the satisfaction of the Department for at least one session.

IX .- (a) Local Science and Art Scholarships. 84. Where County Committees of Technical Instruction have established a system of Scholarships for boys as part of the approved scheme of technical instruction for the county, the Department may make a grant in aid of the Scholarship fund not exceeding half the value of the Scholarships awarded. This grant will not in the case of any county exceed £50 in any one year.

### (b) Local Exhibitions.

85. Where Technical Instruction Committees establish, in connection with Technical Schools in County Boroughs or Urban Districts, for students of proved ability and ascertained need, and under the terms of a scheme approved by the Department, one or more Exhibitions. of the annual value of £50, tenable at the Royal College of Science, the Metropolitan School of Art, or other approved Technical, Commercial or Art School, the Department may make a grant in aid of the Exhibitions awarded not exceeding half their value, provided that the Department's total contribution in this respect does not exceed £50 in respect of any one Urban District, other than a County Borough, in any one year. Candidates for these Exhibitions must be eighteen years of age; they must have been in regular employment under normal conditions in a trade, business, or industry for at least a year; they must have been in attendance at a Technical School within the administrative area of the nominating Committee for at least two complete and consecutive sessions; and they must satisfy the Department that their general education is of such a nature as to enable them to take full advantage of the course of instruction selected at the approved day school of higher

education. 86. In the case of exhibitioners whose admission to the Royal College of Science for Ireland, Dublin, or the Metropolitan School of Art, Dublin, has been sanctioned by the Department, the fees for tuition at these Institutions will be remitted. Where the Exhibition is held in a school, under the management of the Technical Instruction Committee by whom the Exhibition is established, the Department will require that the Courmittee shall remit the fees for tuition. In the case of all Exhibitions held at other approved Institutions, the Department will be prepared to pay half the fees for tuition in an approved Course, provided that the Technical Instruction Committee, by whom the Exhibition is established, provide the other half from their funds. The Department's grant in

such circumstances will not, however, exceed the sum of £10 in respect of any one exhibition.

87. Successful candidates must devote their whole time during the period for which the Exhibition is granted to the advancement of their studies. Committees proposing to establish Exhibitions must submit,

for the Department's approval, a scheme for the award of Exhibitions. 88. The Department may refuse to aid any Exhibition if there is not a sufficient number of competitors, or if the selected candidate does not. in their opinion, show sufficient merit to justify the award of an Exhibition.

# Y .- Certificate of Satisfactory Completion of Course.

89. A certificate may be issued to any student who has followed in a Technical School a sufficiently satisfactory course, extending over at least two years of specialisation and an Honours certificate to any student who has followed an approved course extending over at least four years of specialisation. The certificate forms will be prepared and filled in locally, and signed by the Chairman of Committee and Principal of the school. The Department will afterwards stamp them to give them authoritative recognition. The names of the subjects of the course in each year; the number of hours' instruction, and the number of years' attendance should be inscribed on the back of the certificate.

90. The Department may, as necessity arises, modify or add to this Programme; but no important changes will be made without due notice.

91. The decision of the Department in all questions arising in connection with the payment of grants under this Programme must be regarded as final.

#### APPENDIX A.

# QUALIFICATIONS OF TEACHERS.

A régister has been formed, containing the names of teachers who, after provisional recognition by the Department in any subject, have taught a class in that subject, to the satisfaction of the Department, for at least one session. Provisional recognition will, as a rule, be accorded in respect of the

following qualifications:-

l. The Degree of any University, or the Diploma of an approved Day Technical University College, in respect of subjects taken at the final examination for the Degree or Diploma. 2. Full Technological Certificates in the First Class of the Honours

Grade of the City and Guilds of London Institute. 3. The Irish Secondary Teachers' Drawing Certificate in respect of elementary instruction in Art subjects, such, for example, as the teaching of Drawing to classes of the Introductory year.

4. The Irish Secondary Teachers' Honours' Drawing Certificate in respect of the subjects named on the certificate. In county boroughs,

and in the larger technical schools where circumstances appear to demand it, higher qualifications will be looked for.

 The Department's Diploma in respect of Domestic Economy subjects in the case of students trained at the Irish Training School of Domestic Economy.

6. Diplomas in respect of Domestic Economy subjects awarded by the Board of Education, by the National Union, or by the late Kildare Street School of Cookery, now the Irish Training School of Domestic Economy. 7. Certificates in respect of Manual Instruction issued by the Department at the close of courses of training of Manual Instructors conducted in Dublin.

8. The Teachers' Certificates in Manual Training (Woodwork and

Metalwork) of the City and Guilds of London Institute, and the Teachers' Higher Certificates (Woodwork and Metalwork) of the Board of Examinations for Educational Handwork.

9. Certificates of Class I., Stage III., of the Royal Society of Arts. 10. Teachers' Diplomas of the London Chamber of Commerce in respect

of commercial subjects and languages named thereon.

11. Pitman's Full Teacher's Certificate for Shorthand.

12. The certificate of the National Board, in respect of English and Mathematics of the Introductory year. First-class Certificates in Stage II. of Science subjects of the Board of Education will not alone be recognised as sufficient qualification to teach

the subject named on the certificate. For recognition as teacher of a modern language, high attainments,

and some conversational ability, will be looked for.

Specially qualified persons will always be exceptionally recognised; but such recognition will be granted only when the applicant for recognition has satisfied the Department that he is specially qualified. Applications for special recognition should be accompanied by a complete detailed statement of the applicant's course of study and work; and should be supported, as far as possible, by certificates from professors or employers. In order to determine finally whether a teacher has sufficient technical knowledge of the subject which he seeks to teach. the Department may request him to undergo a special examination. Such special examination will, as a rule, be held in Dublin; and the applicant will have to bear his own travelling and personal expenses in

connection therewith. Registration of a teacher's qualification may be suspended (or further provisional recognition refused) upon evidence of insufficient knowledge of a subject for teaching purposes, or of inefficiency as a teacher from whatever cause arising.

# EXAMPLES OF SCHEMES OF TECHNICAL INSTRUCTION IN NON-AGRICULTURAL SUBJECTS.

COUNTY CORK.

TECHNICAL INSTRUCTION SCHEME.

1st August, 1911, to 31st July, 1912.

The Scheme, subject to the provisions requiring local contributions from rates is applicable to all the Urban Districts (with the exception of Queenstown), and to all the Rural Districts within the administrative area of the County Council.

Population of the area administered under the Scheme :- Urban Districts, 32,994; Rural Districts, 287,586; total, 320,580.

Valuation of the County: - Urban Districts, £64,321; Rural Districts,

£1,026,974; total, £1,091,295.

Value of 1d. rate:—Urban Districts, £268; Rural Districts, £4,279; total, £4,547. The local contribution from the rates will be paid over to the Committee (a) by the County Council in instalments in September, December, March and July; and (b) by the Urban District Councils at various dates before the end of the financial year.

#### Technical Instruction Committee.

The Committee is a Joint Committee of the Cork County Council and the Urban District Councils of Clonakilty, Fermoy, Kinsale, Macroom, Mallow, Midleton, Skibbereen and Youghal. It consists of twenty-eight members, of whom seven are Councillors, and twenty-one added members

#### Chief Industries.

The most important industries (excluding agriculture and allied industries) of the Urban and Rural Districts of the County are :--building trades, distilling, brewing, shipping, fishing, lace-making, brick-making, seamed glass-making, flour manufacture, woollen manufacture, chemical works, mineral water works, condensed milk, ferrumite, tanning, paper manufacture.

#### Objects of the Scheme.

The objects of the Scheme are to provide, mainly by means of evening schools and itinerant classes, instruction in science, art, technological, commercial, and domestic economy subjects, chiefly for persons engaged in various industries during the day.

The Scheme is set out under the following heads :-

I. Einance.

IL Evening Schools.

III. Technical Classes for Girls.

IV. Domestic Economy Day Classes.
V. Instruction in Manual Work and Domestic Economy.
VI. Preparatory Course of Instruction.

# VII. General Conditions. I FINANCE.

A.	Estimated	Income:	

(1) Contribution from the County Council (the produce of a rate of &d. in the f levied over the Rural Districts in the Financial Year ending 31st March, 1912)

(2) Contributions from the Urban District Councils of Clonakilty. Fermoy, Kinsale, Macroom, Mallow, Midleton, Skib-bereen and Youghal (the produce of a rate of 1d. in

the £ levied in the financial year ending 31st March,

(3) Contributions from the Department:-(a) From Endowment .. £2 125 (b) Grants for instruction in Science, Art,

350 etc. (4) Students' Fees

50 (5) Sundry Receipts £5,235 Total

€2.130

230

350

65

# B. Estimated Expenditure:

(1) Evening Schools, Domestic Economy Day Classes and Itinerant Classes (Rent of Rooms, Payment of Teachers other than those specified below, Heating, Lighting, Materials, Advertising, etc.)

£1.250 (2) Two County Art Teachers (Salaries and Expenses) 440 (3) One Chemistry Teacher (Salary and Expenses) . . (4) Three Special Teachers of Commercial Subjects (Salaries 610 and Expenses) ... (5) Eight Itinerant Instructors in Woodwork (Salaries and

1.500 Expenses) (6) One County Teacher of Lace-making and Design (Salary 110 and Expenses) ..

(7) Three County Instructresses in Domestic Economy (Salaries 420 (8) Technical Classes for Girls

(9) Residential School of Domestic Training, Dunmanway:-(a) Salary of Certified Teacher of Domestic Feonomy ... £100 (b) Salary of Assistant Teacher 40 140 (10) Equipment (Metal Work) 30 (11) Administrative and incidental Expenses, viz. :-(a) Secretary's Salary ... £150

(b) Assistant's Salary (c) Office Expenses, including Printing. Stationery, Advertising, etc... 210

402 £5.157

# C. Allocation of Accumulated Funds:

The funds remaining unexpended from the working of the Scheme in previous years may be applied in establishing classes other than those already provided above, in providing additional equipment and apparatus. and for such other purposes as the Committee, with the approval of the Department, may, from time to time, determine,

#### II. EVENING SCHOOLS.

The Committee will, subject to the written approval of the Department, establish, or aid in establishing, so far as the funds at their disposal permit, Evening Technical Schools or Classes, in places to be previously approved by the Committee and the Department :-

(a) 1. By acquiring, or giving aid towards acquiring, accommodation for Technical Classes :-

(i.) At rent for short term : or

(ii.) At rents for lease; or (iii.) By purchase,

2. By building, or giving aid for building, if necessary, Technical Schools.

(b) By paying, or giving aid towards the payment of, a staff of permanent and temporary teachers. The temporary staff to be engaged by the hour, week, month, or session, as the case may be; the

permanent staff to be engaged as whole-time officers on annual salaries. (c) By providing, or giving aid towards providing, equipment.

Conditions under which Classes will be held. (1) Classes must contain a fair proportion of industrial or commercial students eligible for recognition under the Department's Programme for

Technical Schools and Science and Art Schools and Classes. (2) Classes must be conducted in accordance with the regulations of that Programme.

(3) Classes must meet for not less than twenty hours' instruction in the Session.

(4) Theoretical lessons must be of not less than one hour's duration, and practical lessons of not less than ninety minutes' duration. (5) Classes may not be conducted for grants under the Regulations

for Elementary Evening Schools of the Commissioners of National Education. (6) The subjects of instruction must be suitable to the locality.

# III. TECHNICAL CLASSES FOR GIRLS.

Subject to the conditions set forth below, capitation grants at the rate of £1 10s, per pupil for any number not exceeding ten, and at the rate of 15e, per pupil for the remainder of the class, will be paid in respect of the attendance of girls at instruction in lace-making, occohermaking, needlework, sprigging, embroidery, drawn thread-work, shirtmaking, or such other industrial or domestic subjects as may, from time to time, be approved by the Department.

General Conditions for the Conduct of Classes and Payment of Grants.

(1) The industry in which instruction is given shall be suited to the circumstances of the locality.
(2) The evants may be claimed on account of pupils who have received.

(2) The grants may be changed on account of papers who have received during the session not less than 240 hours' instruction as specified in Section 4 below.

(3) Grants may be paid in respect of a pupil's attendance at instruction in any one industrial subject for not more than two school sessions, but where circumstances have made it desirable to introduce a new industry, crapts may be naid on account of a pupil for not more than three school

cossions in all.

(4) The puril, as part of the 240 hours' instruction, shall receive at least 40 hours' instruction in Demontic Economy subjects. (The 40 hours' instruction in Demontic Economy subjects. (The 40 hours' instruction in Colory is under the devoted to Colory; 10 hours may be given to Laundry Work now to Known than the color hours' instruction in Colory and Laundry Work may be residented to hours' instruction in Colory and Laundry Work may be residented

section of the Scheme, to astidy the conditions in regard to instruction in Domestic Economy, the Committee may, if they think it desirable, send a County Instructress to give the required course of instruction. It must be understood that where the services of the Committee's Domestic Economy Instructress are granted, the namagers of the class are required to provide are, igilet, and the necessary materials. The instruction given must be such as is applicable to the home life of those attending the course.)

(Note.-In order to assist managers of classes working under this

(5) The equipment and instruction must be satisfactory. The Department's Inspectors will be specially directed to report how far the work is instruction, and how far the practice of an industry.

(6) The Sales and Wages Book and Attendance Registers must be satisfactorily kept. (7) Grants will not be payable in respect of the attendance of pupils

who are not over fourteen years of age at the time of admission to instruction, or who are on the Roll of a National School or of an Industrial School under the Irish Industrial Schools Act.

School under the Irish Industrial Schools Act.

(3) Grants will not be payable under this section in respect of instruction in an industrial subject given by a teacher employed by the Committee.

(9) Managers intending to claim grants under this section must forward Form S.47 to the Offices of the Committee on or before the 1st October.

1910. (10) Instruction must begin, under a recognised teacher, before the lst December at the latest.

Should the sum (£65) allocated for the purpose of this section of the Scheme not enable the Committee to pay off the claims in full, at the rates mentioned above, the amount available will be divided in proportion to the claims admitted.

#### IV. DOMESTIC ECONOMY DAY CLASSES.

Grants for instruction given by Nuns who have been trained under the County Cork Scheme of Technical Instruction, and whose qualifications have been recognised by the Department, will be allowed by the Committee under the following conditions:—

Norm—Pupils attending Day Secondary Schools, National Schools.

Industrial Schools (Government aided), or Technical Classes (Section III. of Scheme) may not be eurolled in these classes.

(1) The Committee will pay £7 10s. for each course of instruction, course will consist of fifty lessons of two hours' duration each. Approval of the proposed time table must be obtained from the Department before a course is started.
(2) Not more than £40 will be read by the Committee to exercise the course of the property of the course of

(2) Nor more than 240 will be paid by the Committee to any one teacher appointed under this Scheme in any academic year (left August to 31st July). Two courses conducted concurrently will not be recognised unless one of the courses at least has a full complement of sixteen pupils. (3) A pupil may not be registered for more than two courses, and may

not be registered for two courses conducted concurrently.

(4) New pupils may not be admitted to any course after the sixth

lesson of that course.

(5) No payment will be made for any course of instruction in which the average attendance for the whole course falls below six.

(6) Reasonable charges for materials, fire, and light, used for class teaching, and for necessary advertising will, on the production of satisfactory outchers, be paid by the Committee.

(7) The fee to be paid by each pupil shall be 2s. for each course, and shall, together with any receipts from the sale of cooked dishes, be paid over to the Committee.

(8) A sum, not to exceed 2s. 6d. per week, may be allowed by the

(c) A sum, not to exceed 2s. 6d. per week, may be allowed by the Committee towards the expenses of cleaning, lighting fires, etc., in connection with each course.
(9) The classes shall be open to females of all religious denominations.

(10) Notification of the formation of the classes must be submitted to the Committee on Form S.95.

# V. INSTRUCTION IN MANUAL WORK AND DOMESTIC ECONOMY. The Committee, in order to meet the wants of remote Rural Districts.

The Committee, in order to meet the wants of remote Rural Districts, will appoint internant instructors in Manual Training (Woodwork) and in Domestic Economy. These teachers will give courses of instruction at centres (not already provided for by evening classes) to be approved by the Committee and the Department.

# VI. PREPARATORY COURSE OF INSTRUCTION.

A Preparatory Course, in connection with the Programmes for Technical Schools and Cases, will be operand at Clonakilty. This course will consist of instruction in English, Matthewsite, and Davisum, and is intended for purify who possess only the minimum requirements for admission to an Evening Technical School, and the control of the Course of the Co

a special tourse or technical instruction.

Applicants for admission to the course must have received such an education as would entitle them to be placed in the sixth class of a school under the National Board.

All students under instruction are required to attend instruction in each subject of the course.

# VIL GENERAL CONDITIONS.

(1) The Scheme is not intended to apply to children under fourteen year of ago, but such children who have been placed in the sixth class of a National School, or who have received an equivalent education, may be admitted to classes provided that there is accommodation available. Under no circumstances may Scholars on the roll of a Primary.

School attend classes under this Scheme which meet during Primary

School hours-

(2) Schools or classes conducted or aided under the provisions of the Schome shall be at all times open to the Department's Inspectors. (The Inspectors will, from time to time, report to the Department on the condition and suitability of the school buildings or class-rooms, the character of the instruction and its suitability to the needs of the locality, the sufficiency of the teaching staff for the number of students under instruction, the progress of the students-which they may ascertain in such a manner as may be necessary—the method of registration, and, operally, the observance of the provisions of the Scheme.)

(3) All classes eligible for grants under the conditions of the Programme for Technical Schools and Science and Art Schools and Classes shall be

conducted in accordance with the Regulations of the Programme. (4) Classes conducted or aided under the Scheme shall not be of such

a size as to impair the efficiency of the instruction. (A practical class should consist of not more than twenty students under one teacher, and a theoretical or demonstration class of not more than forty students. Local Committees should assist teachers in keeping classes within these limits.)

(5) Control will be exercised over the admission to classes so that students may take only associated subjects, and admission to certain classes may be limited by entrance examinations in order that the classes may be of manageable size, and that students selected may be capable of taking full advantage of the instruction.

(6) Classes will, unless in exceptional circumstances, be closed should the average attendance for four successive lessons fall below six. (7) Attendance Registers shall be carefully, regularly, and punctually

marked.

(8) A Local Committee of Management shall be formed in each centre in the Rural Districts where classes are to be held. The Committee formed shall appoint an Honorary Secretary, and place itself in communication with the County Joint Committee. In an Urban District the classes shall be under the management of a Local Committee appointed for this purpose by the Urban District Council. Wherever the instruction of girls is involved a number of ladies should be included in the Local Committee.

The duties of a Local Committee are :-

(a) To arrange for suitable accommodation for the courses of instruction to be given; to awaken local interest, and to make due provision for the starting, or resumption, of the courses. (b) To assist in securing regular and punctual attendance at the

classes. (c) To visit the classes from time to time, and to check and sign

the registers; and

(d) To make recommendations to the County Committee as to local requirements in connection with the classes.

(9) Full particulars of the qualifications and experience of any teacher

whom it is proposed to engage shall be submitted to the Department, and their approval of the appointment obtained, in writing, before the appointment is actually made. (10) The previous written approval of the Department shall be

obtained for any expenditure upon additional equipment, or for any purpose not covered by the proposals under the head of Finance. (Approval of such expenditure will not be given unless the proposals have been submitted for the Department's sanction before any liability is incurred.) (11) Accurate returns of such particulars as are required by the Department shall be made at the specified times.

(12) Within seven days after any meeting of the Committee, a copy of the minutes of proceedings of that meeting, as entered in the minute

book, shall be furnished to the Department.

(13) The accounts of the Committee shall be treated as part of the accounts of the Local Authorities, and will be audited as such by the Auditor of the Local Government Board, (14) No money shall be spent under this Scheme in an Urban District

unless the Urban Districts contribute annually a rate of one penny in the £ or its conivalent.

The Scheme is subject to revision at the close of the academic year.

#### COUNTY FERMANACH

## TECHNICAL INSTRUCTION SCHEME.

#### 1st August, 1911, to 31st July, 1912,

The Scheme, subject to the provisions requiring local contributions from the rates, is applicable to the Urban District of Enniskillen, and to the Rural Districts within the administrative area of the County Council. Population of the County: - Urban District, 5.412; Rural Districts

60.018; total, 65,430, Valuation of the County: - Urban District, £14,300; Rural Districts.

£228,129 : total, £242,429. Value of 1d. rate: - Urban District, £60; Rural Districts, £950; total. The local contribution from rates will be paid over to the Committee

## in two instalments, in April and October, 1911. Chief Industries

The population is almost entirely devoted to agricultural pursuits.

#### Objects of the Scheme,

The objects of the Scheme are to provide instruction in lace and crochetwork, needlework, manual training (woodwork), domestic economy, and hygiene.

The Scheme is set out under the following heads:-

- I. Finance.
- II. Instruction in Industries. III. Instruction in Domestic Economy Subjects and Manual Training. IV. Training School for Lace Teachers.
  - V. General Conditions.

#### I. FINANCE.

- A. Estimated Income:
- (1) Contribution from the County Council from rates levied in the financial year ending 31st March, 1912 . . .
- (2) Contribution from the Urban District Council of Enniskillen (the produce of a rate of 1d. in the £ levied in the financial year ending 31st March, 1912)
- (3) Contributions from Department :-(a) Annual contribution from Endowment
  - 400 (b) Grants for Instruction in Science, Art, etc.
- (c) Special grant in aid of the purchase of Equipment for the Technical School at Enniskillen
- (4) From extern Day Secondary School for services of Teachers 50

£1,259

B. Estimated Expenditure :	
(1) Salaries and Expenses of Teachers of Industrial Subjects .	. £240
(2) Salary of Instructress of Domestic Economy	. 105
(3) Salary of Instructor in Manual Work	. 140
(4) Salary of Principal of Enniskillen Technical School .	. 165
(5) Salaries of other Teachers at Enniskillen Technical School .	. 110
(6) Travelling Expenses of Teachers referred to at (2) and (3	3) .
and Class Expenses	. 65
(7) Rent and Lighting of Technical School at Enniskillen	. 39
(8) Administration and Incidental Expenses:—	
(a) Secretary's Salary	. 60
(b) Office Expenses, Printing, Stationery, Advertis	8+
ing, etc.	. 60
(9) Equipment for Technical School at Enniskillen	. 250
Total	£1,234

#### II. INSTRUCTION IN INDUSTRIES.

To improve the work in less and crooket-making and in medlework carried on throughout the country, the Committee may appoint nite insiders. These teachers will give instruction at centres to be fixed to be considered to the properties of the Department, and each teacher will be required to give more of the Department of the control of

A satary of £60 per annum may be allowed when the teacher is employed for thirty hours, or upwards, per week.

# Conditions under which the Classes will be held. (1) A Local Committee to be formed, who shall make known the objects

of the instruction, obtain a suitable class-room, and be responsible for the proper cleaning and lighting of the room.

(2) All changes in the Time Table of the classes to be at once notified to the Committee.
(3) An accurate account of all receipts and expenditure to be kept

for each class in the books provided for the purpose by the Department.

(4) A deduction of one penny per shilling to be made from the cale
price of all articless. (The amounts so raised will be applied in meeting
the cost of rent, fuel, postage, laundering, and incidental expenses, and
in forming a fund to be used in paying ready cash for work done)

(5) Laundering to be paid for at a rate not exceeding 5d. per pound's worth of work washed.

(6) Should the first valued to at (1) the

(6) Should the fund referred to at (4) above exceed, at the close of any scademic year, one-tent) of the year's aske, a hours may be greated out of the excess to each worker, at a rate of not more than del per great the scale of the wages paid in the case of lace and ercebet-workers, and 3d, per 4 ki the case of springers. (This bonus will only be paid after the accounts the scale of the scale of the country of the Country Committee, and on the certificate that the position of the country committee, and the certificate that the position of the country committee, and the scale property of the country committee, and the slower purposes to be returned to the Country Committee.

#### III. INSTRUCTION IN DOMESTIC ECONOMY AND MANUAL TRAINING.

The Committee will appoint an instructress in Domestic Economy Subjects and Hygiene, and an instructor in Manual Training (Woodwork), who chall conduct courses of instruction in these subjects at sentres and at times to be fixed by the Committee, with the approval of the Department. These courses will consist of at least thirty lessons of two hours' duration each, and will extend over a period of about six weeks. A fee not exceeding 2s. 6d. will be charged for admission to each class.

#### IV. TRAINING SCHOOL FOR LACE TEACHERS.

A school for the training of skilled workers as, teachers of lace and sprigging classes will be conducted in connection with the Technical School, Enniskillen. Instruction will be provided in lace-making, or sprigging, laundering, drawing and design, English, commercial arithmetic, business procedure, and hygiene.

Classes will be held daily under the supervision of a Principal holding special qualifications. Students, while in attendance at the school must continue to practice

their industry.

Candidates for entrance must pass an examination in English, arithmetic, drawing, and lace-making or sprigging.

Recognition of qualifications to give instruction in lace-making or sprigging will be accorded to those students only who attend satisfactorily during one complete session of twelve months, and who reach a satisfactory standard in an examination which will be held by the Department.

#### V. GENERAL CONDITIONS.

(See Section 7 Scheme for County Cork.)

#### COUNTY LONDONDERRY.

TECHNICAL INSTRUCTION SCHEME.

lst August, 1911, to 31st July, 1912.

The Scheme, subject to the provisions requiring local contributions from the rates, is applicable to the Urban District of Limavady, and to all the Rural Districts within the administrative area of the County Council.

Population of the area administered under the Scheme:—Urban District, 2,692; Rural Districts, 94,862; total, 97,554. Valuation of the area administered under the Scheme:—Urban District.

26,474; Rural Districts, £295,163; total, £301,637.
Value of ld. rate:—Urban District, £27; Rural Districts, £1,229;

value of the race—cross besides, 22; from Districts, 21,260;
The local contributions from the races will be paid over to the Committee as follows—(a) by the County Council in instalments in August and November, 1911, and February and May, 1912; (b) by the Urban District Council in September, 1911.

#### Technical Instruction Committee.

The Committee is a Joint Committee of the County Council and the Urban District Council of Limavady. It consists of eighteen members, of whom fifteen are Councillors, and three added members.

#### Chief Industries.

Linen manufacture, shirt-making, flour milling, and agriculture.

#### Objects of the Scheme.

The objects of the Scheme are to provide, mainly by means of evening schools and itimerant classes, instruction in science, art, technological, commercial, industrial, and domestic economy subjects, chiefly for persons engaged in various industries during the day. The Scheme is set out under the following heads:-L Finance.

II. Subjects of Instruction.

III. Instruction in Permanent Centres.

IV. Itinerant Instruction in Manual Instruction and Domestic Economy.

V. Instruction in Industrial Subjects. VI. General Conditions.

I. FINANCE. A. Estimated Income : Contribution from the County Council (the produce of a rate of id. in the £ levied over the Rural Districts in the financial year ending 31st March, 1912) £306 (2) Contribution from the Urban District Council of Limavady (the produce of a rate of 14d. in the £ levied in the financial year ending 31st March, 1912) 40 (3) Contributions from the Department :-(a) From Endowment .. 67.4 (b) Grant for instruction in Science, Art. etc. 300 (4) Students' Fees (5) Sale of Books, Class Materials, etc. (6) From extern School in respect of services of Art Teacher

70 20 Total £1,281

B. Estimated Expenditure: (1) Salary of Principal ... €200 (2) Salaries of two Instructresses in Domestic Economy 1.90 (3) Salary of Manual Instructor .. .. 125 (4) Salaries of other Teachers (5) Wages of Caretakers . . . 305 40 (6) Travelling Expenses and Maintenance Allowance of Teachers (7) Maintenance Expenses of Schools (8) Maintenance Expenses of Itinerant Classes 105 22 (%) Repairs to Premises . . . . . 10 (10) Equipment . . . . 1.5 (11) Prizes

90 (12) Class Materials 50 (13) Administration (including Salary of Office Assistant, £28) 78 Total

.. £1,271

#### II. SUBJECTS OF INSTRUCTION.

# Commercial Subjects

Shorthand and typewriting, book-keeping, business methods, commercial arithmetic, commercial English, commercial correspondence, commercial law. Language:

French.

Mathematics:

Practical mathematics, practical plane and solid geometry, Science (Pure and Applied);

Carpentry and joinery, building construction and drawing,

Handieratt :

Manual instruction (woodwork and metalwork), woodcarving.

Domestic Science :

Cookery, laundry-work, dressmaking, needlework, sprigging, sick nursing.

Art :

Freehand, model and geometrical drawing, design, drawing in light and shade, painting.

The teaching of these subjects will be provided mainly by the following Instructors :-(1) A Principal specially qualified to give instruction in technological

and science subjects, whose duties shall be :-(a) To act as Secretary to the County Joint Technical Instruction

Committee.

(b) To organise Technical Schools in the Urban District of Limayady and in the Rural District of Magherafelt, and to arrange for courses of instruction in such other centres as the Committee may, from time to time, decide upon, and generally to carry out the provisions of the Scheme in accordance with the instructions of the Committee, acting in conjunction with the Department of Agriculture and Technical Instruction.

(c) To give instruction in each of the two Technical Schools and to supervise the work of the schools and classes.

(2) Two Instructresses in domestic economy subjects whose services shall be available in the Urban District of Limavady, the Rural District

of Magherafelt, and at such other centres as may, from time to time, be arranged. (3) A Manual Instructor whose services shall be available in Limavady

and Magherafelt Technical Schools, and at such other centres as may, from time to time, be arranged.

(4) An Art Teacher whose services shall be available in the Limavady and Magherafelt Technical Schools, and at such other centres as may, from time to time, be arranged. (5) An Instructress in sprigging, whose services shall be available in

# two centres approved by the Department.

III. INSTRUCTION IN PERMANENT CENTRES. The administration of the Scheme in the Urban District of Limavady and in the Rural District of Magherafelt will be in the hands of Local

Committees appointed in accordance with the terms of Paragraph 8 of the General Conditions. The teaching will, for the most part, be given by the Instructors re-

ferred to in Section II. Any subjects not provided for by those instructors may be taught by local qualified teachers.

# IV. ITINERANT INSTRUCTION IN MANUAL INSTRUCTION

AND DOMESTIC ECONOMY. The services of the instructors appointed under this Scheme will also be available, as far as may be possible, for other Rural centres in the County. The instruction most likely to be of value in such districts is, in general, that which will be imparted by the teacher of manual work

and the teachers of domestic economy. The courses of instruction in Rural districts will extend generally over six weeks, but where two centres can be worked concurrently the course may extend over three months. In either case it will be possible to secure at least thirty lessons in each course.

# V. INSTRUCTION IN INDUSTRIAL SUBJECTS.

With a view to improving the work in agrigging being carried on throughout the Committy the Commistee III graphing a teacher of this subject for which provision has been made in the graphing bedfore. This subject for which provision has been made in the graphing bedfore. This subject is the subject of the provision of the provision to be found to the subject of the provision of

> Conditions under which the Classes will be held. (See Section II. Scheme for Co. Fermanagh.)

> > VI. GENERAL CONDITIONS.

(See Section VII. Scheme for Co. Cork.)

# COUNTY MEATH.

TECHNICAL INSTRUCTION SCHEME.

1st August, 1911, to 31st July, 1912.

The Scheme, subject to the provisions requiring local contributions from the rates (see France), is applicable to the Urban Districts of Kells, Navan, and Trin, and to the Rural Districts within the administrative area of the County Council. Ropulation of the area administered under the Scheme:—Urban

Districts, 7,780; Rural Districts, 59,717; total, 67,497.

Valuation of the area administered under the Scheme:—Urban Districts, £13,602; Rural Districts, £539,830; total. £553,432.

Value of 1d. rate:—Urban Districts, £57; Rural Districts, £2,249; total, £2,366.

The local contributions from the rates (Urban and County) will be

The local contributions from the rates (Urban and County) will be peid over to the Committee before the close of the financial year ending 31st March, 1912.

# Technical Instruction Committee.

The Committee is a Joint Committee of the Meath County Council and the Urban District Councils of Navan, Kells, and Trim. It consists of fifty-two members, of whom twenty-two are Councillors, and thirty added members.

#### Objects of the Scheme.

The objects of the Scheme are to provide, by means of itinerant instructors, technical classes for girls, and by maintaining a Technical School at Navan, instruction in technological, commercial, industrial and demestic economy subjects.

The Scheme is set out under the following heads:-

- I. Finance.
- II. Itinerant Instruction.
  III. Technical School, Navan.
- Technical School, Navan.
   Technical Classes for Girls.
- V. General Conditions.

#### I. FINANCE.

£300

124 £871

#### A. Estimated Income:

(1) Contribution from the County Council from rates levied over the Rural Districts in the financial year ending 31st

the Rural Districts in the financial year ending 31st March, 1912

(2) Contributions from the Urban District Councils of Navan.

(2) Contributions from the broad positive Condition of Aveau Kells and Trim (the produce of a rate of 1d. in the £ levied in the financial year ending 31st March, 1912) . .

etc.	- 50	550
Total		£901
B. Estimated Expenditure:		
(1) Colour of Instructor in Manual Work		£140
(2) Salaries of two Instructresses in Domestic Economy		180
(9) Teamelling Expenses of Itinerant Teachers		72
(4) Class Expenses, including Cost of Supplies, Rent of Roo	ms,	
Removal of Equipment, etc.		110
(5) Maintenance of the Technical School, Navan		70
(6) Interest on and Repayment of Loan for School Building		40
(7) Contribution towards Salary of Commercial Teacher		60
(8) Grants to Technical Classes for Girls		75
(9) Administrative and Incidental Expenses:—		
(a) Secretary's Salary	£62	
(b) Office Expenses, Printing, Stationery,		
Advertising, etc	62	

C. Allocation of Accumulated Funds:

C. Allocation of Accumulated Funas:
The funds remaining unexpended from the working of the Scheme in provious sessions, together with the balance of the funds for the present academic year, will be applied towards equipping the new Technical School, Navan.

Total

# II. ITINERANT INSTRUCTION.

The Committee will employ one Itinerant Instructor in manual work, and two Itinerant Instructresses of domestic economy. Instruction will be given by these teachers in manual work, cookery, laundry-work, needle-work, and household management, in such centres within the

needle-work, and household management, in such centres within the County as may, from time to time, be determined by the Committee.

The courses of instruction will, as a rule, be of six weeks' duration, lessons being given each day, and will thus comprise at least thirty lessons; but where it can be conveniently arranged two courses say; run concurrently. In this case the duration of the course will be three

months, half the time in each week being devoted to one centre and half to the other.

The objects of the Scheme, so far as domestic economy is concerned, are set forth as follows:—

(a) To provide, for the wives and daughters of farmers, labourers, and others, courses of instruction to enable them, with the ordinary means and appliances of their homes, and within easy reach of them, to manage their homes with method and economy, and make the most of available means. The course will be directed to securing improvement in plain cookery. general cleanliness, and care of the young and sick.

(b) The Secretary of the Committee shall give such assistance as may be necessary in the carrying out of the Scheme, and the expenses of locomotion, and any necessary printing and advertisements shall form part of the expense of the Scheme to be borne by the Committee, and to be expended in accordance with its requirements.

(c) The Committee shall, with the approval of the Department, employ instructoreses in domestic economy to give courses of instruction for the benefit of all classes, in particular for the wives and daughters of small farmers and labourers, who will be admitted to the courses on payment of a small fee, to be fixed by the Local Committee, subject to the approval

of the County Joint Committee, (d) The course of instruction will include such subjects as :-(1) The daily routine of working people's homes.

(2) Plain cookery. (No article of diet to be used which is not in use or within easy reach of rural labourers and small farmers.)

(3) General method and cleanliness in work, (4) Laundry-work and repairs to clothes.

(5) First lessons in the nursing of the sick in their homes. (6) The poor man's budget. How to provide for the main-

tenance and comfort of a given number in a family on a given income. The salaries and expenses of the teachers employed shall form a first charge on the funds of the Committee.

# III. TECHNICAL SCHOOL, NAVAN.

The Department will place at the disposal of the Committee the services of a teacher in commercial subjects, who will conduct such classes throughout the session as may be arranged to suit local requirements. The Committee will make a contribution of £60 to the Department towards his salary, and will also pay a proportion of his travelling expenses

Courses will also be conducted in domestic economy and manual instruction under the teachers employed by the County Joint Committee. A sum of £70 is allocated for rent and other expenses in connection with the classes,

## IV. TECHNICAL CLASSES FOR GIRLS. Subject to the conditions set forth below, capitation grants at the rate

of £3 per pupil for any number not exceeding ten, and at the rate of £2 per pupil for the remainder of the class, will be paid in respect of the attendances of the girls at instruction in lace-making, crochet-work, dressmaking, needlework, sprigging, embroidery, drawn thread-work, shirtmaking, hoiserymaking, or such other industrial or domestic subjects as may, from time to time, be approved by the Department.

In certain industrial subjects, such as lace-making, a knowledge of drawing is of great value to the worker. Where provision can be made for efficient instruction in drawing, a further grant of 10s, per pupil may be paid in respect of those girls who have qualified for the grant referred to in the foregoing paragraph, and have received not less than forty hours' instruction in drawing.

General Conditions for the conduct of Classes and Payment of Grants. (See Section III. Scheme for Co. Cork.)

> V. GENERAL CONDITIONS (See Section VII. Scheme for Co. Cork.)

## COUNTY SLIGO.

# TECHNICAL INSTRUCTION SCHEME.

# 1st August, 1911, to 31st July, 1912.

The Scheme, subject to the provisions requiring local contributions from the rates (see Finance), is applicable to all the Rural Districts within the administrative area of the County Council.

Population of the County, 73,213; valuation, £192,245; value of 1d. rate, £801.

The local contribution from the rates will be paid over to the Committee by the County Council before the close of the financial year ending 31st March, 1912.

Committee of Agriculture and Technical Instruction.

The Committee was appointed on the 12th June, 1911, and will occur to hold office on the 12th June, 1914. It consists of sixty-one members, of whom twenty-two are County Councillors, and thirty-nine added members.

#### Chief Industries.

Agriculture and allied industries, woollen manufacture.

#### Object of the Scheme.

The object of the Scheme is to provide, by means of itinerant courses. instruction in technological and domestic economy subjects. The Scheme is set out under the following heads:-

- I. Finance. II. Itinerant Instruction. III. Technical and Apprenticeship Scholarships for Boys.

#### IV. General Conditions.

- I. FINANCE.
- A. Estimated Income: (1) Contribution from the County Council from rates levied over the Rural Districts in the financial year ending 31st

March, 1912 .. .. 250 (2) Department's contribution from Endowment Total.

B. Estimated Expenditure : .. £115 0 (1) Salary of one Instructress in Domestic Economy . . 130 0 (2) Salary of one Instructor in Manual Work 42 10

(3) Travelling Expenses of Itinerant Teachers (4) Expenses of Classes in Manual Work and Domestic Economy

including cost of Supplies, Rent of Rooms, Removal of 110 0 Equipment, etc. . . 50 0 (5) Technical and Apprenticeship Scholarships for Boys

80 0 (6) General Administration Account .. £527 10 Total

C. Allocation of Accumulated Funds:

Of the funds remaining unexpended from the working of the Scheme in previous sessions the sum of £57 10s, will be applied to meet the estimated deficit on the working of the Scheme for the present academic year. The remainder will be applied for such purposes as the Committee, with the approval of the Department, may, from time to time, determine.

#### II. ITINERANT INSTRUCTION

Itinerant teachers of manual work and domestic economy will be employed throughout the session. The appointment of these teachers shall be subject to the following general conditions:— (a) The itinerant teachers shall be under the control of the County

Committee, and shall receive their instructions through the Secretary of

the Committee.

(b) In centres where a course of instruction is being provided for the first time it will, in general, be desirable for the teachers to pay a preliminary visit in order to see that the proposed accommodation is suitable, and to confer with the local Committee with regard to arrangements for the courses.

(c) The teachers will, as a rule, be expected to give not less than four hours' actual teaching upon five days each week. (The general con-

ditions for the employment of itinerant teachers are set forth in the Circular

Letter No. 21, issued by the Department.) (d) The Committee will submit, at the beginning of the session, to the Department, a time-table and itinerary, showing the proposed distribution of the time of the teachers for the session 1911-12. This general time-table and itinerary shall be arranged at a Committee meeting held after the date fixed for the return of the forms of application from the different centres in the county.

(e) The courses in domestic economy will, as a rule, be of six weeks' duration, lessons being given each day; but where it can be conveniently arranged the courses may run concurrently. In this case the duration of the course will be three months, half the time each week being devoted

to one centre and half to the other.

(f) The salaries of the teachers are payable monthly.

## III. TECHNICAL AND APPRENTICESHIP SCHOLARSHIPS FOR

(1) Scholarships for Boys are awarded on the results of a competitive

examination held annually. Boys who, during the preceding School Year, have been in regular attendance at one of the following schools will be eligible to compete, viz. :--(i) Primary Schools (only boys who have completed the course

of the Sixth Standard of the National School Programme, or its equivalent, will be eligible to competel,

(ii) Elementary Evening Schools conducted under the Rules and Regulations of the Commissioners of National Education.

(iii) The Preparatory Course of Evening Technical Schools. (2) The Scholarships will be of two kinds:—(a) Technical Scholarships. and (b) Apprenticeship Scholarships,

## (A)—Technical Scholarships.

(Tenable only by Boys who shall have attained the age of 13 years on the 1st day of August in the year of examination.)

These Scholarships are tenable at (1) approved Day Technical Schoolse (2) approved Day Trades' Preparatory Schools, or (3) other Schools, th. main object of which is the instruction of pupils of an industrial type and which may provide a course, exclusively followed by the pupils attending it, equivalent to that of a Day Trades' Preparatory School. The choice of the school will remain with the winner of the Scholarship or his parent (or guardian) subject to the approval of the Department. There will be three classes of Technical Scholarships :-

(i) Scholarships of the value of £5, tenable at schools within a radius of five miles from the home of the scholar,

(ii) Scholarships of the value of £10, tenable at schools outside a radius of five miles from the home of the scholar; Scholarships of this value are only awarded where there is no anproved school of the type selected within a radius of five miles

(iii) Scholarships of the value of £20 to be granted to scholars whose attendance at an approved school will necessitate

residence away from his home. Scholars will be required to be in attendance at the school selected

Scholarship.

at the beginning of the School Year, and in any case not later than the 1st of October. The amount of the Scholarship will be paid in instalments to the parents or guardians of the scholar on or about the 15th October, 15th January, 15th April, and 15th July. The second and subsequent instalments will be paid only after satisfactory reports of attendance and progress have been received from the school authorities. Scholarships will be tenable for one year, but may be renewed for a

second and third year on the recommendation of the Department's Inspector. Holders of these Scholarships will be eligible after attaining the age of sixteen years, for election without further examination by the Committee, on the recommendation of the Department, to an Apprenticeship

## (B)-Apprenticeship Scholarships.

(Tenable only by Boys who have attained the age of 16 years.)

These Scholarships are tenable during the period of apprenticeship to an approved trade extending over a period of five years. They may be awarded on the result of the annual Examination for Technical and Apprenticeship Scholarships, or in accordance with the terms of the

preceding paragraph. The choice of the trade to be followed will remain with the winner

of the Scholarshin, subject to the approval of the Department.

It will be a condition of tenure that the holder shall be duly indentured to a firm recognised by the Department for the purpose of these Scholarships, and under conditions which have been approved by them. The

more important of these conditions are shown below It will also be a condition of tenure that the holder shall follow an approved course of study in an Evening Technical School or a Special Course of instruction for Apprentices organised under the Department's Programme for Technical Schools and Science and Art Schools and Classes, and Scholars must submit for the approval of the Department, a timetable of their proposed courses of study under these conditions. Scholars will be required to begin attendance at the approved course of study at

the same time that they are admitted to apprenticeship.

Apprenticeship Scholarships are intended to provide a maintenance allowance during the period of Apprenticeship and their value for the period may be estimated at about £100. This will be paid in such sums as, together with the weekly wages paid by the employer, will amount to not less than 15s. per week throughout the period of Apprenticeship. As the rate of wages paid an apprentice commonly increases throughout the period of apprenticeship, beginning at a small sum in the first year, the amount to be provided by the Committee for the Scholarship will decrease in proportion.

The amount will be payable in such instalments as may be approved by the Department, regard being had to the special circumstances of

each case. Where an Apprenticeship premium is payable, the Department will be prepared, in approved cases, to provide for its payment.

(3) The Committee may, at any time, subject to the approval of the Department, determine a Scholarship, without notice, upon being

satisfied that its continuance is, for any reason, undesirable (4) In the case of difficulties arising in connection with the award or retention of these Scholarships, the matter will be referred to the

#### CONDITIONS REGULATING THE DEPARTMENT'S RECOGNITION OF INDENTURES.

(5) In selecting firms with whom scholars may be apprenticed, the Department will arrange that the following conditions shall be observed:

(i) Satisfactory arrangements to be made whereby the Apprentice Scholars will have an opportunity of learning all the various

branches of their trade.

(ii) In centres where provision is made for suitable Day Classes, Apprentice Scholars to be permitted to attend during working hours such classes as the Department may approve, the total number of hours so allowed not to exceed an average of eight hours weekly. The Apprentice Scholars to be paid for the time spent at these classes, but the total number of hours worked, including the hours of attendance at classes, shall not exceed that recognised in the particular trade as constituting a week's work.

(iii) Where suitable Day Classes are not available, facilities to be given to Apprentice Scholars to attend a course of instruction in Evening Technical Schools or Classes, the working hours to be reduced by an equivalent number of hours, such reduction not to exceed a total of eight hours per week.

(iv) The authorities of the school or classes which the Apprentice Scholar attends shall certify as to the number of hours during which the Scholar was present at the class each week, and on the production of such certificate, the Scholar shall be paid by the employer for the hours mentioned in the certificate.

(v) The Department's Inspectors shall be entitled to visit the various places where the apprentices are employed at any time during working hours, and inquire into grievances or complaints that may be made either by the employer or the Apprentice Scholar.

(vi) The Department shall bave power to cancel the indenture and to terminate the Scholarship should the Apprentice prove unsatisfactory, or to transfer the Apprentice to another firm if for any reason it appears desirable to them to do so.

#### EXAMINATION FOR TECHNICAL AND APPRENTICESHIP SCHOLARSHIPS. JUNE, 1912.

(6) The Examination will be beld by the Department of Agriculture and Technical Instruction, on the 20th of June, 1912, at centres which will be fixed when all the applications have been received. The subjects and time-table of the examinations will be :-

Arithmetic.-Thursday, June 20th, 11 a.m. to 12.30 p.m.

The principles of Vulgar and Decimal Fractions, with examples involving addition, subtraction, and multiplication.

Proportion, Simple Interest, Practice, Unitary Method. The Metric System. Methods of Weighing and Measurement,

Measurement of lengths, areas, and volumes.

English.—Thursday, June 20th, 1 p.m. to 2.15 p.m. Composition: A short essay or letter, of thirty or forty lineswith correct spelling, grammar, and punctuation-on some

familiar subject. Ability to answer, in fully-formed sentences, questions on the meaning of words and phrases, and on the matter of a

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passage read.

Grammar: The construction of words; prefixes, affixes, and roots,

Analysis of simple and complex sentences. Correction of faulty sentences. Paraphrasing a short poetical extract.

Drawing.—Thursday, June 20th, 2.30 p.m. to 3.30 p.m.

Freehand drawing.
 Simple exercises in design.

Model drawing of simple common objects.
 Simple commercial drawing.

## Irish.—Thursday, June 20th, 3.45 p.m. to 5.15 p.m.

 An Tarbk Breac. Tadhg Gabha: with questions on grammar, etc., arising out of the texts.

 A passage, or passages, from some other Irish text or texts for translation into English.

 Short sentences, colloquial phrases, and a short passage for translation from English into Irish.

# Mathematics.—Thursday, June 20th, 3.45 p.m. to 5.15 p.m.

Algebra.—Problems involving simple and simultaneous equations, fractions, factors, and square root. Euclid.—Book I., with practical exercises on the problems. Practical Geometry. Measuration of rectilineal figures from

Practical Geometry. Mensuration of rectilineal figures from diagrams drawn to scale. Funils will be required to draw and measure simple geometrical

figures accurately.

Candidates may be examined on any part of these Syllabuses.

One hundred marks will be assigned for Arithmetic, one hundred for English, fifty for Drawing, and fifty for Irish or Mathematics. (7) Only those candidates will be eligible for admission to the

examination :—

(a) Who will be over thirteen and under sixteen years of age on

 (a) Who will be over thirteen and under sixteen years of age on the 1st August, 1912.
 (b) Whose parents or guardians have been resident in the area

administered by the Technical Instruction Committee for at least one year immediately preceding the lat June, 1912 (8) Forms of application for admission to the examination may be obtained from the Secretary to the Committee, and must be returned.

duly filled in, by the 1st June.

(9) Successful candidates will be required to furnish, for the inspection of the Technical Instruction Committee, an authenticated copy of

certificate of birth, and a certificate of sound health from a duly qualified medical practitioner.

(10) The Committee may refuse to award the full number of Scholar-ships officed for conventition should be supported by conventition should be supported by the state of the conventition of the state of the supported by the state of the support of the state of th

ships offered for competition should a sufficient number of qualified candidates not show sufficient merit. Early in the Assedment Year, 1911-12, copies of the Scholarship Scheme

Early in the Academic Year, 1911-12, copies of the Scholarship Scheme shall be sent to all Schools eligible to present candidates, situated within the area administered by the Committee, and an advertisement of the Scheme and of the number of Scholarships to be competed for in June, shall be inserted once during the month of May in the newspapers circulating within this area.

> IV. GENERAL CONDITIONS. (See Section VII. Scheme for Co. Cork.)

#### COUNTY WESTMEATH.

# TRUBUICAL INSTRUCTION SOFTEME.

#### 1st August, 1911, to 31st July, 1912,

The Scheme, subject to the provision requiring a local contribution

from the rates (see Finance), is applicable to all the Rural Districts

within the administrative area of the County Council. Population of the area administered under the Scheme, 55,012; valuation, £315,510; value of 1d. rate, £1,315. The local contribution from the rates will be paid over to the Com-

mittee by the County Council in instalments in April and December, 1911.

County Committee of Agriculture and Technical Instruction.

The Committee was appointed on the 13th June, 1911, and will cease to hold office on the 1st June, 1914. It consists of sixty-two members of whom thirty-one are County Councillors, and thirty-one added members-

#### Chief Industries.

The chief industries in the rural districts of the County are agriculture and allied industries.

#### Objects of the Scheme.

The objects of the Scheme are to provide, by maintaining a Technical School at Mullingar, and by means of itinerant instructors and scholarships, and by technical classes for cirls, instruction in technological, commercial, domestic economy, and industrial subjects,

The Scheme is set out under the following heads :-

I. Finance.

II. Itinerant Instruction. III. Technical School, Mullingar. IV. Technical Classes for Girls.

V. Scholarships for Girls. VI. General Conditions.

# I. FINANCE.

A. Estimated Income: (1) Contribution from the County Council from rates levied in

the financial year ending 31st March, 1912 ... £326 (2) Department's contribution from Endowment (3) Contribution from the Athlone Urban District Technical Instruction Committee for the services of Domestic

Economy Instructress ... 28 Total #R01

450

B. Estimated Expenditure:

(1) Salary and Travelling Expenses of one Instructor in Manual Work. 6170

(2) Expenses of Classes in Manual Instruction, including cost of Supplies, Rent of Rooms, Cost of Removal of equipment, etc. 20 (3) Salaries and Expenses of three Instructresses in Domestic

350 Economy (4) Salary of Commercial Instructor 60 (5)

Technical School, Mullingar:—  (a) Provision for Preparatory Course Clas-	ses	£25	
(b) Scholarships		30	
(c) Heating, Lighting, Class Materials		50	
Grants to Technical Classes for Girls* (see note	below)		105 106
Scholarships for Girls			200
General Administration Account	•••		80
Total			£1,085

\* Note.—The Committee may, subject to the approval of the Department, apply this sum or any portion thereof, to the direct employment of county teachers of industrial subjects, who may be transferred from district to district, as required,

#### C. Allocation of Accumulated Funds:

Of the funds remaining unexpended from the working of the Scheme in previous sessions, the sum of £284 will be appropriated to meet the estimated deficit on the work of the Scheme for the present academic vear the remainder will be applied for such purposes as the Committee, with the approval of the Department, may, from time to time, determine.

#### II. ITINERANT INSTRUCTION

(a) The subjects to be taught will include manual work in wood. cookery, laundry-work, needle-work, and household management, with hygiene (if possible). The course of instruction in manual work will, as a rule, extend over six weeks, or, where two centres can be taken concurrently, three months. In either case the courses will be so arranged as to secure at least thirty lessons for each of two classes at each centre.

(b) The centres for these courses will be selected by the Committee, on consideration of the applications from all eligible centres, at the

beginning of the session.

(c) In the case of the courses conducted by one of the Domestic Economy Instructresses, the Committee will rent a cottage in a populous district, preferably a district containing a number of labourers' cottages. The Instructress will reside in the cottage and conduct classes on certain days weekly for a fixed period-say ten or twelve weeks. The cottage will be furnished with essentials only and in keeping with the requirements of a cottage of its class. It will be managed so as to show how a household may be conducted on limited resources. The time of the Instructress which is not occupied in classwork at the cottage will be devoted to making house to house visits in the neighbourhood with a view to affording such information on practical subjects as the circumstances of cases may suggest, special attention being given to practical demonstrations in the proper use of such utensils and food materials as are available in the majority of cottages,

The number of students admitted to a class held at the cottage in which

the Instructress resides should not exceed eight or ten. The necessary furniture will be hired or purchased by the Committee, (d) One of the teachers of domestic economy shall be available for the

Residential School of Domestic Training at the Convent of Mercy, Moate, so far as to comply with the provisions laid down in Section V. B. (2) of this Scheme. (c) The salaries of itinerent teachers shall be paid monthly, and shall

constitute a first charge on the funds of the Committee. (f) Salaries, allowances, and conditions of employment of itinerant

teachers are set forth generally in the Department's Circular Letter, No. 21.

#### III. TECHNICAL SCHOOL, MULLINGAR,

The Committee will provide suitable premises for permanent classes at Mullingar. Classes will be conducted in English, elementary mathematics, and elementary drawing of the Preparatory Course : in manual work, practical mathematics, and mechanical drawing; in commercial subjects, and in domestic economy,

The classes will be under the general supervision of the manual instructor

as headmaster, and his duties will be :-

1. To conduct classes at Mullingar on two nights in each week. in addition to classes at itinerant centres when not engaged at Mullingar.

2. To take general charge of the registration of students, and the arrangement of time-tables and classes in the Technical School. Mullingar.

3. To be responsible for the equipment of all classes in the Technical School.

4. To furnish monthly reports of the working of the Technical School to the County Committee,

5. To supply, through the Secretary to the County Committee. such information and returns as the Department may, from time to time, require,

A duly qualified teacher in subjects of the Preparatory Course will be engaged by the Committee, and a sum of £25 is provided to defray the teacher's salary and other expenses incidental to the classes.

Classes in commercial subjects will be conducted on two nights each week by a teacher engaged by the Committee.

In order to encourage the attendance of suitable pupils at the Technical School a sum of £30 is provided for the award of Scholarships during the present session as follows :--

CLASS A. PREPARATORY COURSE.—TWELVE SCHOLARSHIPS OF 10s. EACH. These Scholarships will be awarded to the twelve candidates who obtain highest places at the entrance examination in English, Mathematics and Drawing

CLASS B. FIRST YEAR OF SPECIALISATION.—SIX SCHOLARSHIPS OF 62 EAGE.

These Scholarships will be awarded to the six candidates who obtait highest marks at the examination for entrance to Specialised Courses. Three of the Scholarships may be confined to pupils who attended the Preparatory Course satisfactorily.

CLASS C. SECOND YEAR OF SPECIALISATION.—FOUR SCHOLARSHIPS OF £3 EACH.

These Scholarships will be awarded to the four candidates who obtain highest marks in any three subjects of a First Year of Specialisation.

#### CONDITIONS.

(1) Pupils on the roll of a National School are ineligible for Scholarships, (2) The Scholarships will entitle the holders to free tuition at an approved course during the session.

(3) The amounts of the Scholarships will be paid in three instalments -the first on the enrolment of the scholar, and the subsequent instalments after Christmas and at the end of the session. The second and final instalments will be paid only upon receipt of reports of satisfactory attendance and progress from the Principal.

## IV. TECHNICAL CLASSES FOR GIRLS.

Subject to the conditions set forth below, capitation grants at the rate of £3 per pupil for any number not exceeding ten, and at the rate of £2 per pupil for the remainder of the class, will be paid in respect of the attendance of girls at instruction in lace-making, crochet-making, needlework, sprigging, embroidery, drawn thread-work, shirt-making, or such other industrial or domestic subject as may, from time to time, be approved by the Department.

approved by the Laplacement.

In certain industrial subjects, such as lace-making, a knowledge of drawing is of great value to the worker. Where provision can be made for efficient instruction in drawing, a further grant of 10s, per pupil may be paid in respect of those girls who have qualified for the grant referred to in the foregoing paragraph, and have received not less than forty hours' instruction in Drawing.

General Conditions for the Conduct of Classes and Payment of Grants. (See Section III. Scheme for Co. Cork.)

#### V. SCHOLARSHIPS FOR GIRLS.

The Committee will, in June, 1912, award a limited number of Scholarships to girls who have received an education equivalent to that of the Fifth Standard of a National School, to enable them to attend a regular course of instruction and training in domestic economy. The object of such Scholarships is to cultivate intelligence and resourcefulness on the part of those holding them, and to render them more practical in the performance of home duties of all kinds.

The Scholarships will be of the value of £15 each, and will be tenable at residential schools of domestic training recognised as suitable by the Department of Agriculture and Technical Instruction. Selected candidates will be required to pay a Fee of £2 to the managers of the school on or before the date of entrance, and this sum, together with the amount of the Scholarship to be paid by the Committee to the school managers will entitle the scholar to board, residence, and training for one academic

A. General Conditions Regulating the Award of the Scholarships.

(1) The Scholarships will be tenable only by girls:-

(a) Who are over sixteen and under twenty-five years of age on the 1st of June, 1912; and (b) Whose parents or guardians have been resident in the area

administered by the Committee for at least one year immediately preceding the 1st of June, 1912.

(2) The selection of the scholars will be made by a Selection Committee of the County Committee. (3) Forms of application for Scholarships may be obtained from the

Secretary to the Committee, and must be returned, duly filled in, by the 1st of June. Each application must be accompanied by not less than two testimonials, one of which must be from a local clergyman, and one

from a District or County Councillor.

(4) Selected candidates will be required to furnish, for the inspection of the County Committee, an authenticated copy of certificate of birth, and a certificate of sound health from a duly qualified medical practitioner. (5) Selected candidates shall enter the Residential School for a fortnight on probation. Any candidates found unsuitable to undergo the course of training will, at the expiration of the period of probation, be course of training win, as are expression or the place of the required to keave, and their places shall be filled by selection from the other qualified candidates. The fee to the school managers shall be refunded to those scholars who are required to leave the school under

these conditions. (6) The amount of the Scholarships will be paid to the managers of the schools in two half-yearly instalments, one on or about the 31st January, the other on or about the 31st July. Payment of these instalments will be authorised by the Department on receipt of satisfactory reports from their Inspectors.

(7) All Scholarships shall terminate on the 31st July, 1913.

(8) The Committee may refuse to award the full number of Scholarships should a sufficient number of suitable candidates not be forthcoming, and they may determine a Scholarship at any time, without notice, upon being satisfied that its continuance is for any reason

(9) In the case of difficulties arising in connection with the awarding or holding of these Scholarships, the matter will be referred to the

Department, whose decision shall be final.

An advertisement of the Scholarship Scheme will be inserted once. early in the month of May, in the newspapers circulating within the area administered by the Committee,

B. Conditions Regulating the Recognition of Residential Schools of Domestic Training.

(1) In order that a Residential School of Domestic Training may be recognised by the Department under this Scheme, the managers must provide a satisfactory course of instruction in the following subjects:-Household Management (including the keeping of accounts).

Cookery (including the selection of menus for small incomes). Needlework (repairing, adapting, and dressmaking), Laundry-work.

Hygiene (including sick nursing and the care of the young).

At least thirty hours per week must be devoted to the foregoing subjects.

The curriculum may also include one or more of the following subjects if adequate provision is made for both practical and theoretical instruction :-

Dairy-work. Poultry-rearing. Bee-keeping. Horticulture.

(2) There must be on the staff of the school a certificated teacher of Domestic Science, who devotes at least thirty hours per week to the instruction of residential pupils. If the number of pupils exceed 18, there

must be one such teacher for each 18, or fraction of 18, pupils.

(3) The school managers must satisfy the Department that the dormitory accommodation, and other provisions, of the school are adequate

and satisfactory.

(4) Within a fortnight after the re-opening of the school in any year, the managers must forward to the Department the complete time-table on Form 8.148, copies of which will be furnished by the Department upon application. This time-table will show the distribution of time to the various subjects of the course, and must receive the written approval of the Department.

(5) The school shall be at all times open to the Inspectors of the Department.

VI. GENERAL CONDITIONS.

(See Section VII, Scheme for Co., Cork.)

# URBAN AND RURAL DISTRICTS OF TIPPERARY.

# TECHNICAL INSTRUCTION SCHEME.

1st August, 1911, to 31st July, 1912.

# Chief Industry.- Dairying.

Population of the area administered under the Scheme:-Urban.

6,281; Rural, 18,895; total, 25,176. Valuation of the area administered under the Scheme:-Urban.

£10,564; Rural, £106,504; total, £117,168. Value of 1d. rate:—Urban, £44; Rural, £444; total, £488, The local contributions from the rates (Urban and Rural) will be paid over to the Committee before the close of the financial year ending 31st

# Technical instruction Committee.

The Committee is a Joint Committee of the Tipperary Urban District Council and the Tipperary Rural District Council. It consists of thirty members, of whom twelve are Councillors, and eighteen added members, A. Protect

# Objects of the Scheme.

The objects of the Scheme are to provide, by means of evening classes and short courses of instruction in the rural districts, instruction in science, technological, domestic economy, and commercial subjects for persons engaged in various occupations during the day.

Premiseo There is, at present, no Central Technical School, but the erection of such a school is in contemplation. Classes, in the meantime, are hold at the Christian Brothers' Schools, the Convent of Mercy, and at the National School, in addition to the various itinerant courses of instruction

# organised throughout the Rural District.

The Scheme is set out under the following heads :-I. Finance.

II. Subjects of Instruction.

III. Instruction in Glove-making, IV. Technical and Apprenticeship Scholarships for Boys.

V. Scholarships for Girls, VI. General Conditions.

March, 1912.

# I. FINANCE.

A. Estimated Income: (1) Contribution from the County Council from rates levied over the Rural District in the financial year ending the 31st

March, 1912. (2) Contribution from the Urban District Council (the produce

of a rate of ld. in the f levied in the financial year ending the 31st March, 1912) (3) Contributions from the Department :--

£221

(a) From Endowment ... (b) Grants for Instruction in Science, Art. £450

etc., and in aid of the Scholarship Fund 120

(4) Students' Fees and Sales of Materials . . 10 Total £850

887	
B. Estimated Expenditure :	
(1) Salary of Manual Instructor	£130
(2) Travelling Expenses of Manual Instructor	30
(3) Salary of Domestic Economy Instructress	130
(4) Salaries of other Teachers (one of whom also acts as Assistant	100
Secretary at a Salary of £12 per annum)	110
(#) Colour of Sometour	50
(6) Allowance to the Managers of the Convent of Mercy.	50
	15
	57
(8) Residential Schools of Domestic Training:—	91
(b) Allowance in respect of Expert Instruc-	
tion for Scholarship Holders at £5 per	
Seholar 10	
	40
(9) Rent of Rooms at Christian Brothers' Schools	15
(10) Allowance to the Managers of the Christian Brothers' Schools	
for Superintendence, etc., of Evening Classes at Central	
Schools	15
(11) Salary of Teacher of Glove-making	50
(12) Prizes for Students in Technical Classes	12
(13) Diplomas for Students in glove-making Classes	2
(14) Travelling Expenses not provided for in the foregoing	
allocations, administrative and incidental expenses, and	
for such Industrial Teaching as may be approved	194

#### C. Allocation of Accumulated Funds: The funds remaining unexpended from the working of the Scheme

in previous sessions may be applied in providing equipment, as a reserve fund for building, and for such other purposes as the Committee, with the approval of the Department, may, from time to time, determine, II. SUBJECTS OF INSTRUCTION.

Total

£850

Commercial Subjects:

Shorthand, typewriting, book-keeping, commercial arithmetic, and business methods.

Science (Pure and Applied):

Building construction, glove-making.

Handicraft:

Manual instruction.

Domestic Science:

Cookery, laundry-work, dressmaking and housewifery.

## III. INSTRUCTION IN GLOVE-MAKING.

(1) The Committee will pay the salary of a teacher of glove-makingwho will give instruction in this subject in the Rural District. (2) The teacher will be selected by Messrs, Fownes, Brothers & Co., of Worcester, by whom the work of the classes will be supervised. (3) The centres at which instruction will be given will be selected by the Committee.

#### V. SCHOLARSHIPS FOR GIRLS.

The Committee will, in June, 1912, award two Scholarships to girls who have received a satisfactory primary education, to enable them to attend a regular course of instruction and training in Domestic Economy. The object of these Scholarships is to cultivate intelligence, thrift and resourcefulness on the part of those holding them, and to reader them more practical in the performance of home duties of all kinds. The Scholarships will be of the value of £15 each, and will be tenable

The Scholarships will be of the value of £15 each, and will be tendle at the Domestic Training Institute, Charlement Street, Dublin, or other residential Schools of Domestic Training recognised as suitable by the Department of Agreedutes and Technical Instruction. Selected candidates will be required to pay a fee of £2 to the managers of the School dates will be required to pay a fee of £2 to the managers of the School of the Schoolarship to be paid by the Committee to the Schoolarship to be paid by the Committee to the Schoolarship to be paid by the Committee to the Schoolarship to be paid by the Committee to the Schoolarship to be paid by the Committee to the Schoolarship to be paid by the Committee to the Schoolarship to be paid by the Committee to the Schoolarship to be paid by the Committee to the Schoolarship to be paid by the Schoolarship to the

For General Conditions regulating the award of Scholarships and conditions regulating the recognition of Residential Schools of Domestic Training, see Section V. Scheme for Co. Westweath.

#### VI. GENERAL CONDITIONS.

(See Section VII., Scheme for Co. Cork.)

#### URBAN DISTRICT OF BALLYMENA.

TECHNICAL INSTRUCTION SCHEME.

1st August, 1911, to 31st July, 1912.

#### Chief Industries.

Spinning, weaving, boot and shoe manufacture, coach-buildingengineering, collar and cuff making, mining (near the town), pork-curing-Important market centre.

Population, 10,886; valuation, £34,536; value of 1d. rate, £144. The local contribution from the rates will be paid over to the Committee in two instalments on the 1st October, 1911, and 1st March, 1912.

# Technical Instruction Committee.

The Committee was appointed on the 23rd January, 1911, and will cease to hold office on the 23rd January, 1914. There are nine members of whom five are Urban District Councillors, and four added members.

#### Objects of the Scheme.

The objects of the Scheme are to improve the industries of the neighbourhood by means of the Central Technical School, in which are taught subjects having a direct or indirect bearing on the welfare of the trades and occupations of the town and district.

#### Premises.

The Technical School is situated in Galgorm Street, Ballymena, and contains the following class-rooms—combined science lecture-room and laboratory (with dark room), woodwork room, commercial class-room, domestic science room (with scullery), engine and dynam room, mechanical drawing room, art room, modelling room, typewriting room, mechanical drawing room, are room, modelling room, typewriting room, mechanical drawing room, are room, modelling room, typewriting room, mechanical ballowatory.

The Scheme is set out under the following heads:-

- I. Finance.
- II. Subjects of Instruction in the Technical School.

  III. Day Trades Preparatory School.

  IV. General Conditions.

L F	INANCE				
A. Estimated Income:					
(1) Contribution from the Urbar of a rate of 1d. in the	District	Counci	l (the pro Financial	duce	
ending the 31st March, 1	912)				£130
(2) Students' Fees					100
(3) Subscriptions to Scholarship	and Prize	Fund			3
(4) Contributions from the Depe	rtment :-		64		
(a) From Endowment					520
(b) Grants for Instruct	ion in Sc	ience. /	Art, etc.		790
(c) Grant towards the :	maintena	nce of t	he Day Th	ades	
Preparatory School					120
(5) Sale of Books, Class Material	s. etc.				5
(6) From Examination Fees					7
**				_	
	To	tal		• •	£1,675
				_	
B. Estimated Expenditure:					
(1) Salary of Principal					£360
(2) Salaries of other Teachers					
					664
	::	::	::	::	42
(3) Scholarships and Prizes					42 36
(3) Scholarships and Prizes (4) Caretaker's Wages					42 36 45
(3) Scholarships and Prizes (4) Caretaker's Wages (5) Fuel, Light and Cleaning	: -	::	::	::	42 36
(3) Scholarships and Prizes (4) Caretaker's Wages (5) Fuel, Light and Cleaning (6) Rents and Insurance	: -	::	::.	::	42 36 45
Scholarships and Prizes     Caretaker's Wages     Si Fuel, Light and Cleaning     Rents and Insurance     Equipment (new and renewa	: -	::	::-	::	42 36 45 92
Scholarships and Prizes     Caretaker's Wages     Sreal, Light and Cleaning     Rents and Insurance     Equipment (new and renews     Class Materials	ile)	::	::-	::	42 36 45 92 80
(3) Scholarships and Prizes (4) Caretaker's Wages (5) Fuel, Light and Cleaning (6) Rents and Insurance (7) Equipment (new and renews (8) Class Materials (9) Repairs to Premises, Ground	ils)	::	::	::	42 36 45 92 80 35
Scholarships and Prizes     Caretaker's Wages     Sreal, Light and Cleaning     Rents and Insurance     Equipment (new and renews     Class Materials	ils)			::	42 36 45 92 80 35 250

C. Allocation of Accumulated Funds:

Of the funds remaining unexpended from the working of the Scheme in previous sessions, the sum of £55 will be appropriated to meet the estimated deficit on the working of the Scheme for the present session. The remainder will be applied for such other purposes as the Committee, with the approval of the Department may, from time to time, determine.

Total

£1.730

#### II. SUBJECTS OF INSTRUCTION.

Commercial Subjects:

Shorthand, typewriting and commercial correspondence, office routine, hook-keeping, commercial arithmetic, elementary economics, commercial law, commercial geography, banking and currency.

Language: French.

Mathematics:

Mensuration and technical arithmetic, practical mathematics, practical geometry.

Science (Pure and Applied):

Building construction and drawing, carpentry and joinery, machine construction and drawing, heat and heat engines, experi-mental mechanics, electric lighting, mechanical engineering,

chemistry, properties of materials, graphic statics. Handieraft:

Manual instruction in wood and in metal, wood-carving and other ornamental work in wood.

Domestic Science:

Cookery, laundry-work, home sewing and dressmaking, hygiene, housewifery, ambulance work, sick nursing,

Art Subjects:

Freehand, model, and geometrical drawing, drawing in light and shade, black-board drawing, brushwork, design, elementary modelling.

# III. DAW TRADES PREPARATORY SCHOOL.

The Day Trades Preparatory School is conducted at the Municipal Technical School. The aim of this school is to provide for boys over thirteen years of age, who have received an education equivalent to that of the Sixth Standard of a National School, such a course of training as will fit them to enter upon an industrial career.

The course of instruction will extend over three years, and will include experimental science and drawing, mathematics, manual instruction, practical geometry, and literary subjects, with one modern language

besides English.

The Department will bear three-fourths of the approved net annual cost of maintaining the school. The proportion of the expenditure admitted for payment by the Department may be increased by onetenth if the Department, after consideration of their Inspector's reports. are of opinion that the organisation and teaching justify such a course, or it may be reduced by one or more tenths if the organisation or teaching is considered unsatisfactory.

> IV. GENERAL CONDITIONS. (See Section VII., Scheme for Co. Cork.)

URBAN DISTRICT OF RATHMINES AND RATHGAR.

TECHNICAL INSTRUCTION SCHEME. 1st August, 1911, to 31st July, 1912.

Chief Industries.

Commercial pursuits, laundry-work.

Population, 32,602. Valuation, £177,906, Value of 1d, rate, £741. The local contribution from rates will be paid over to the Committee before the close of the financial year ending 31st March, 1912.

# Technical Instruction Committee.

The Committee was appointed on the 23rd January, 1911, and will cease to hold office on the 23rd January, 1914. It consists of fifteen members, of whom nine are Urban District Councillors, and six added members. Objects of the Scheme,

The objects of the Scheme are to provide instruction in commercial subjects by means of a School of Commerce, and in Domestic Economy Subjects by means of a School of Domestic Training.

The School of Commerce is situated at 24 Rathmines Road, Co. Dublin, and contains ten class-rooms. The School of Domestic Economy is situated at 52a Upper Rathmines,

and contains one class-room, The Scheme is set out under the following heads :-

I. Finance.

II. Subjects of Instruction. 111, General Conditions,

ed image digitised by the University of Southampton Library Digitisation Uni-

I. F.	INANC	Е.			
1. Sonool	ov. Cor	nemon			
(1) Contribution from the Urban of a rate of 1d. in the i	Distric E levied	t Counci	il (the Financ	produce ial year	
ending 31st March, 1912) (2) Contributions from the Deps (a) From Endowment	artment			£1,000	£759
(b) Grants for instruc- etc. (estimated)	tion in	Science,	Art,	300	1,300
(3) Students' Fees					220
	T	otal			£2,279
2. SCHOOL OF	Domest	o Econ	OMY.	-	
(1) Contributions from the Depa (a) From Endowment (b) Grants for instruc-			Art.	£250	
ete.,				50	
(2) Students' Fees and Sales			• • •	120	420
	т	otal			£2,699
3. Estimated Expenditure :				-	
1. School	OF CO	MERCE.			
(1) Salary of Principal					£414
(2) Salaries of other Teachers	2.2				1,116
(3) Examinations for School Cer	tificates				60
(4) Caretaker's Wages		• •			52 76
(5) Fuel, Light and Cleaning (6) Rents and Insurance					83
(7) Class Materials	::				5
(8) Equipment, including Addition	ons to T		- ::	- ::	248
(9) Repairs to Premises				- ::	10
10) Administrative and incidenta	1 Expen	868 :			
(a) Salary of Secretary				£50	
(b) Printing, Stationery a		ertising		90	
(c) Clerical Assistance				35	
(d) Office Expenses (e) Deputation Expenses				10 10	
(f) Sundries				20	
() bullium		••			215
	T	otal			£2,279
2. School of I	DOMESTI	c Econ	MY.		
(1) Salary of Chief Instructress				110	
(2) Salary of Assistant Instructre	crisis			65	
(3) Caretaker's Wages				55	
(4) Fuel, Light and Cleaning				25	
(5) Rent and Insurance (6) Equipment				40 40	
(6) Equipment				45	
(8) Printing, Stationery and Adve	rtising			40	
					420
	T	otal			£2,699

#### II. SUBJECTS OF INSTRUCTION.

(1) SCHOOL OF COMMERCE.

Preparatory Course:

English, arithmetic, and drawing.

Commercial Subjects:

Commercial Autoposes:

Shorthand, typewriting, book-keeping, English correspondence,
business methods, commercial arithmetic.

Languages:

French, German.

Mathematics :

Bankers' arithmetic and algebra.

Higher Commercial Subjects:

Advanced book-keeping and accountancy, company procedure and accounts, anduffing economics, commercial geography, commercial law, practical banking and finance, nertropic processing and a second processing and a second consideration of the second processing and the control work of railway chief offices, railway economics and gegraphy, railways and the State, building construction and plan drawing, fire insurance theory and practice practice and law, secident insurance practice and law.

(2) SCHOOL OF DOMESTIC ECONOMY.

Cookery, laundry-work, dressmaking and home sewing, household management, hygiene and sick nursing.

III. GENERAL CONDITIONS.

(See Section VII., Scheme for Co. Cork.)

# CONDITIONS OF AWARD OF SCHOLARSHIPS OFFERED FOR

Under Revision. Form S. 2.
Department of Agriculture and Technical Instruction for Ireland,

# Upper Merrion Street, Dublin.

METROPOLITAN SCHOOL OF ART, DUBLIN.
TEACHERSHIPS-IN-TRAINING, 1911.

The Department will offer for competition, at the beginning of the Session 1911-12, three Teacherships-in-Training tenable at the Metropolitan School of Art, Dublin. One will be open to competition amongst meas candidates only, and one amongst female candidates only; the third will be open to competition amongst both male and female candidates.

The object of the Teacherships-in-Training is to encourage capable Art students to undertake such a course of training as will enable them to become Art Teachersh

The Teacherships-in-Training will entitle the holders to free admission to all the day and evening classes at the Metropolitan School of Art for the Session 1911-12; a maintenance allowance of 21s. per week during the Session (about forty weeks); and third-class railway fare for one journey

to and from Dublin.

The Teacherships will be awarded partly as the result of an examination, and partly for works submitted according to the conditions stated below. The examination will be confined to Art subjects, and will be held at the Metropolitan School of Art, Dublin, on Tuesday, Wednesday, and Thursday, the 27th, 28th, and 29th June, 1911.

Candidates must themselves bear any expenses incurred by them in con-

nection with attendance at the examination.

Candidates who have held Scholarships at the Metropolitan School of Art extending over more than one School Session will not be eligible for

the award of Teacherships-in-Training.

Teacherships will not be awarded to candidates who do not show in the course of the commination that they are espable of taking full advantage of the instruction provided at the Metropolitan School of Act, and in will not be regarded as eligible. In awarding the Teacherships prefercience will be given to candidates who possess the Art Class Teachers Certitacts (Based of Edusation), or the Irish Scondary Teachers' Honours have the Commission of the Commis

The award will be made on the following conditions:

(1.) Candidates must be not less than eighteen and not more than thirty years of age on the lat Soptember, 1911. The Department may allow a modification of this rule in special cases.

(2.) Successful candidates will be required to furnish a medical certificate of health, an authenticated copy of certificate of birth, and satisfactory testimonials from two responsible persons.

(3.) Candidates must satisfy the Department that they have had a good someral education.

(4.) Candidates must have been born in Ireland, or have been resident in Ireland for three years prior to the lat September, 1911.

(5) Successful candidates will be required to prepare, in conjunction with the Headmanter of the School, a scheme of study; and to submit it for the Department's approvals. They will be required to devote their and generally to comply with the regulations set out in the programme of the Metopolitan School of Art. They must be prepared, if required, set of their wintings to undertake usuch works to stochers as the Head-school of the School of t

master may presentle.

(6.) The Teacherships may be renewed for a second Session. Renewal
will depend upon the ability and application shown by the student during
the previous Session, and on the scheme of stude proposed by the student

when applying for a renewal for a second Session.

(7.) The Department reserve the right at any time to determine, without notice, any Teachership upon being satisfied that its continuance is for any reason undesirable.
(8.) The decision of the Department in all questions arising in connection

(c.) The decision of the Department in an questions arising in connection with Teacherships shall be final.

(9.) The Department do not undertake to employ Teachers, nor to find

employment for them, at the close of the period of training.

The names of the candidates must be forwarded, on Form S. 3, so as to reach the Offices of the Department not later than the 29th April, 1911. Applications for forms are not regarded as applications for admission to the examination. Only those candidates who present an official acknowledgment of the form of application will be admitted to the examination.

room.

Copies of Form S. 3 may be obtained, after 1st February, 1911, upon application to the Secretary, Department of Agriculture and Technical Instruction for Ireland, or to the Registrar, Metropolitan School of Art, Kildare Stroot, Dublin.

SUBJECTS OF EXAMINATION.

The subjects and time-table of the examination will be ---First Day, Tuesday, June 27th-

10 a.m. to 2 p.m.—Drawing from the Antique, (100 marks.)

3 to 5.30 p.m.-Model Drawing. (50 marks.) Second Day, Wednesday, June 28th-10 a.m. to 1 p.m.-Drawing in Light and Shade from a Cost.

(50 marks.) 2 to 6 p.m.—Drawing, or Modelling, Design, (100 marks)

Third Day, Thursday, June 29th-11 a.m. to 1.30 p.m.—Principles of Ornament. (100 marks.) 2.30 to 4.30 p.m.-Perspective. (50 marks.)

4.45 to 5.45 p.m.—Drawing on the Blackboard. (50 marks.)

For syllabuses of the subjects of examination, see "Syllabuses and Lists of Apparatus" of the Board of Education, to be obtained (price 4d.),

Street, Dublin.

# either directly, or through any bookseller, of Mr. E. Ponsonby, 116 Grafton WORKS.

In order to encourage Art students to devote much attention to what should be the primary aim of their higher instruction, namely, the application of their skill, experience, and good taste to works requiring more time and care than the ordinary conditions of an examination room permit, marks, to a maximum of 225, will be awarded for works of the same charge. ter as those proposed for the Irish Secondary Teachers' Honours Drawing Certificate. (See extract below.)

Works to be submitted for the competition must be delivered at the Metropolitan School of Art, Dublin, on or before Saturday, the 24th June, 1911. They should be addressed, "The Registrar, Metropolitan School of Art, Dublin," and should be specially marked, "Works, Teacherships-in-

Training." Extract from Circular 16 (Irish Secondary Teachers' Drawing Certificate).

(1.) "An imperial sheet of three designs, based on a study in colour of a growing plant. The plant should be drawn from nature simply and directly -not pictorially represented. Such details of the plant as the student may select for the purposes of the designs should, if required, be drawn

separately. 'The designs must occupy, in a decorative way, a square, a circle, and an oblong, one being in monochrome, one in two colours, and one in polychrome. At least one of the designs must be executed in body colour or tempers. In each case, the plant must be not merely applied to the

given space, but treated in accordance with decorative conditions. (2.) "A modelled study of a flowering plant, with three distinctly different modelled designs for patterns based on it. Each of these three different designs must be suited to the technical requirements of three different processes of manufacture. The process and material for which it is intended must be named on each design. The four studies to be on a panel 30 inches by 22 inches.

(3.) (a.) "A shaded drawing of a complete human figure from the Antique or from Life; or

(b.) "Shaded drawings of a head, hand and foot, from the Life, full size; completely finished in pencil, chalk, or brush in monochrome; or

(c.) "A modelled figure in the round, 30 inches high, from the Antique or from Life; or (d.) "A modelled head, from Life, full size,"

Under Revision.

Form S. 33

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND, UPPER MICRIAN STREET, DUBLIN,

# ROYAL COLLEGE OF SCIENCE, DUBLIN.

# SCIENCE AND TECHNOLOGICAL SCHOLARSHIPS, 1911,

A limited number of Scholarships and of Teacherships in Training, tenable at the Royal College of Science, Dublin, will be offered for competition among Students of Science and Technology in 1911.

The Scholarships are of the value of 250 per annum and, in addition, entitle the holder to free instruction during the Associate Course, and third-class railway fare for one journey such session to and from Dublin.

A Teachership-in-Training entitles the holder to free instruction during the Associate Course, a maintenance allowance of 21s, per week for the session of about forty weeks each year, and third-class railway fare for one journey each session to and from Dublia.

Candidates awarded Teacherships-in-Training will be required to enter into an undertaking that they will pursue the full Associate Course, with a view to becoming Teachers of Science in Ireland, and that, in the event of their leaving the College before obtaining the Diploma of Associateship, they will refund to the Department the sums paid to them as maintenance allow-

ances and expenses of travelling.

Hokkers of Scholarships and Teacherships-in-Training who may seek leave of absence from attendance at the College in order to attend examinations for Scholarships in other Institutions, will be required to

first pay the College Fee for the current term.

The Associate Course extends over three years, and the College Session lasts from the bezimning of October until the end of June each year.

Holders of Schokarships and Teacherships-in-Training will be required to devote their whole time to the work of the Associates Course, to comply with the Regulations of the College, and to pass the examinations required for the Associateship. The continuance of the Schokarship or Teachershipsin-in the College of the Schokarship or Teachershipsin which the schokarshipsin which was schokarshipsi

Candidates for Scholarships and Toacherships-in-Training must be not less than sixteen nor more than thirty years of age on the 1st June, 1911. Hokkers of Royal Exhibitions or National Scholarships, and present or past Students of the Royal College of Science, are ineligible as candidates. Candidates must have been born in Irland, or have been resident in

Candidates must have been born in Ireland, or ha Ireland for three years prior to the 1st June, 1911.

Cunkitstes will have be satisfy the Department as to their knowledge of English and of one other language (Greek, Latin, Irak, Prench, or German), In these subjects, a pass in the Middle Grade of the Intermedists Education Beard's Examinations, in the First Art Examination of the Royal University of Ireland, or the equivalent of these, will be accepted as satisfactory. Toose candidates who cannot thus satisfy the Department as to their Toose candidates and the satisfactory of the Computer of 1911.

The competition will be confined to Mathematics, Experimental Science and Drawing.

The Syllabus in Mathematics will be the *Honours* Courses in Arithmetic, Geometry, Algebra and Trigonometry for the Senier Grade of the Intermediate Education Board's Examinations of 1911.

meants Education Board's Examinations of 1911.

In Experimental Science, candidates will be allowed the choice of one of
the following subjects of the Special Courses of Experimental Science of the
Department's Programme for Day Secondary Schools:—Physics, Chemistry, Mechanical Science, Botany, Physiology and Hwigner. The exam-

ination may, however, include any of the work of the Two Year Preliminary Course. The Syllabus in Drawing will be the First and Second Year Syllabuses of

the Programme for Day Secondary Schools.

Nors.—Text Books, other than those referred to in the Svllabuses. are not prescribed for the examinations. The examination will be held in Dublin on the days and at the hours

shown below :-

Monday, 3rd July.—Experimental Science (Practical Examination). 10 a.m.-1 p.m.; Drawing, 2 p.m.-5.10 p.m. Tuesday, 4th July,—Mathematics (First Paper), 10 a.m.-1 p.m.: Experimental Science (Written Examination), 2 p.m.-5 p.m.

Wednesday, 5th July.-Mathematics (Second Paper), 10 a.m.-1 p.m.: English, 2 p.m.-5 p.m.

Thursday, 6th July.—Greek, Latin, Irish, French or German, 10 a.m.-1 p.m.

Candidates must themselves bear any expenses incurred by them in connection with attendance at the examination. Scholarships or Teacherships-in-Training will not be awarded to candi-

dates who do not show in the course of the examination that they are capable of taking full advantage of the instruction provided at the Royal College of Science. Candidates with physical defects of voice, sight, or hearing, will not be regarded as eligible for Teacherships-in-Training.

Successful candidates will be required to furnish a Medical Certificate of Health, an authenticated copy of Certificate of Birth, and satisfactory

testimonials from two responsible persons.

The Department reserve the right at any time to determine without notice a Scholarship or Teachership-in-Training, upon being satisfied that its continuance is for any reason undesirable.

The decision of the Department in all questions arising in connection with

the Scholarships and Teacherships-in-Training shall be final. The Department do not undertake to employ Teachers, nor to find

employment for them, at the close of the period of training. Applications for admission to the examination must be made, not later than the 29th April, on Form S. 34, copies of which may be obtained, after the 1st February, 1911, upon application to the Secretary, Department of Agriculture and Technical Instruction for Ireland, Upper Merrion Street,

Dublin, or to the Registrar, Royal College of Science, St. Stephen's Green East, Dublin. Applications received after the 29th April will be too late for consideration. Applications for Forms are not regarded as applications for admission to the examination. Only those candidates who present an official acceptance of the Form of Application will be admitted to the Examination

Room. Form S. 190. Under Revision.

DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND, Upper Merrion Street, Dublin.

# INDUSTRIAL SCHOLARSHIPS, 1910.

The Department will, in August, 1910, award not more than six Industrial Scholarships to persons engaged in industries, such as the Woollen, Liner, Leather, and Tanning industries.

The object of these Scholarships is to enable selected persons, who must already have been engaged in one of the higher branches of the industry, to take a full course of instruction in an institution providing special courses of an approved character, with a view to training them for the management of such an industry. Candidates will be required to show that there is a reasonable expectation of their being able to find suitable employment in the industry in Ireland after the termination of their Scholarships.

The Scholarships will be tenable at some higher institution, to be approved by the Department, in which the industry, and the principles underlying it, are taught. They will be of the value of \$280 seach, and may be renewed for a second or a third year at the discretion of the Department. The Scholarship holders will be selected by the Department on con-

sideration of the qualifications and experience of the applicants.

Candidates must have been born in Ireland, or have been resident in Ireland, or three years immediately preceding the lat July, 1910.

freiant for three years intractaneary presenting the lat only, 1910.

Certificates of good character will be required from all applicants, and selected candidates will be required to produce a medical certificate of bealth and an authenticated copy of certificate of birth.

The decision of the Department in regard to the selection of candidates, or to any other question arising out of these Scholarships, will be final. Candidates must fill in and return, addressed to the Secretary of the Department, not later than the 30th June. 1910. Form S. 1911. comiss of

which may be bad on application.

Under Revision. Form S. 194.
DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND,
UPPER MIRRION STREET, DURLIN.

COMMERCIAL SCHOLARSHIPS 1910.

The Department will, in August, 1910, award not more than six Commercial Scholarships to young men having a sound general education, and

some commercial experience.

The object of the Scholarships is to afford facilities for the holders' obtaining training in some higher Institution, approved by the Department, with a view to their employment as teachers of Commercial Subjects in

Ireland.

The Scholarships are of the value of £100 each, and are tenable for two years. The Department, however, reserve the right to determine a Scholarship at any time within this period upon being satisfied that its con-

tinuance is for any reason undesirable.

The Scholarship holders will be selected by the Department on consideration of the qualifications and experience of the ambicants.

Candidates must be at least twenty-one years of age on the 1st July, 1910, and must have been born in Ireland, or have been resident in Ireland for three years immediately preceding the 1st July, 1910.

Successful candidates will be required to enter into an undertaking that they will ongage in the teaching of Commercial subjects after the termination of their Scholarships. Cartificates of good character will be required from all applicants, and

selected candidates will be required to produce a medical certificate of health and an authenticated copy of certificate of birth. The decision of the Department in regard to the selection of candidates,

or to any other question arising out of these Scholarships, will be final. Candidates must fill in and return, addressed to the Secretary of the Department, not later than the 30th June, 1910, Form S. 195, copies of which may be had on application.

Under Revision. Form S. 196.
Department of Agriculture and Technical Instruction for Ireland,

Defautment of a griculture and technical instruction for Ireland,
Urfer Merrion Street, Dublin.

TRAINING OF TEACHERS OF CROCHET-WORK AND SPRIGGING.

The Department will, in September, 1911, award not more than three Scholarships, tenable at the Training School for Lace and Sprigging Teachers, Enniskillen, to girls having a satisfactory general education, and some

proficiency in Crochet-work or Springing.

These Scholarships are granted to enable the holders to secure training as teachers of Crochet-work or Sprigging.
The Scholarships will be of the value of £25 each, and will be tenable for

one year. The Department reserve the right to determine a Scholarship at any time upon being satisfied that its continuance is for any reason undestrable.

Each candidate for a Scholarship will be required to submit to the

Department with the form of application, specimens of her work in either Crochet-work or Sprigging.

Should the work submitted be regarded as of a satisfactory standard, the

Should the work submitted be regarded as of a satisfactory standard, the candidate will be admitted to an examination which will consist of simple tests in English, Arithmetic, Drawing and Crochet-work or Sprigging. The Scholarship will be awarded as a result of the examination. (Not more than one Scholarship will be awarded in the case of candidates from any one County)

The examination will be held at the Metropolitan School of Art, Dublin, and at the Technical School, Ennishillen, on the following dates:—

and at the Technical School, Enniskillen, on the following dates:

Dublin:—Crochet-work or Sprigging, on Tuesday, 12th September.

English, Arithmetic and Drawing, on Wednesday, 13th September. English, Arithmetic and Drawing, on Wednesday, 13th Soptomber.

Crochet-work or Sprigging, on Thursday, 14th September. Candidates will be required to defray their own expenses in attending

the examination.

Candidates must be at least 20 years of age on the 1st September, 1911, and must have been born in Ireland or have resided in the country for three

years immediately preceding that date.

Two Certificates of good character will be required from all applicants, and selected candidates will be required to produce a medical certificate of

health and an authenticated copy of certificate of birth.

The decision of the Department in regard to the selection of candidates
or to any other question arising out of these Scholarships will be final.

Applicants must fill in and return, addressed to the Secretary of the

Department, Form S. 197, copies of which may be had on application, together with specimens of work in Crochet or Sprigging. (Two specimens of finished work, and two specimens of work in progress should be furnished.) Only those applications received at the Offices of the Department by 13 noon on Saturday. August 28th, 1911, will be taken into consideration.

# RESULTS OF COMPETITIONS FOR SCHOLARSHIPS OFFERED BY THE DEPARTMENT DURING 1911.

SCIENCE AND TECHNOLOGICAL SCHOLARSHIPS AND TEACHER-SHIPS-IN-TRAINING.

At the annual examination held on the 3rd, 4th, 5th, and 6th July, 1911, for Science and Technological Scholarships and Teacherships-in-Training, tenable at the Royal College of Science, Dublin, thirty-nine candidates presented themselves.

Five Scholarships and five Teacherships in Training were offered for competition, and these were awarded to the following candidates, whose names are civen in order of merit:—

Scholarships,

Mr. James W. Porter, Municipal Technical Institute and Mercantile Academy, Belfast.
Mr. John L. McIntyre, The Academy, Ballymena.

Mr. Cornelius Murphy, Christian Brothers' Schools, Cork.

Mr. John J. Murphy, Christian Brothers' Schools, Cork. Mr. Isaac Hopper, The Academy, Cookstown.

#### Teacherships-in-Training.

Mr. Harry E. A. Cooper, Mountjoy School, Dublin, Mr. Herbert Thompson, Mountjoy School, Dublin.

Mr. Bartholomew P. Bowen, Christian Brothers' Schools, North Richmond Street, Dublin.

Mr. Thomas W. Hall, Municipal Technical School, Lurgan. Mr. Robert T. J. Ennis, Clongowes Wood College,

## ART TEACHERSHIPS-IN-TRAINING.

At an examination for three Teacherships-in-Training, tenable at the Metropolitan School of Art, Dublin, held on the 27th, 28th, and 29th June, 1911, thirteen candidates presented themselves. The Teacherships were awarded to the following :---

Miss Una E. Dunean, of Rathgar, Co. Dublin. Miss Mary L. Lynch, of Sandymount, Co. Dublin.

Mr. John S. Kesting, of Limerick,

There were no new Industrial Scholarships offered for competition in 1911. The following Scholarships in Woollen Manufacture were renewed for the Session 1911-12 ---

Mr. Francis H. Crowley, awarded in 1909 and renewed in 1910, Mr. Ceorge S. Hunter, awarded in 1909 and renewed in 1910.

Mr. Henry K. C. Weir, awarded in 1910.

The Scholarship in Linen Manufacture, awarded to Mr. Charles H. Leland in 1910 was renewed for the Session 1911-12.

The Scholarships in Woollen Manufacture are being held at the Leeds University; the Scholarship in Linen Manufacture is being held at the Municipal School of Technology, Manchester.

#### COMMERCIAL SCHOLARSHIPS,

There were no new Commercial Scholarships offered for competition

The Scholarships awarded in 1910 to the following were renewed for the Session 1911-12, and are being held at the London School of Economics and Political Science (University of London) :-

Mr. Patrick W. Bryan. Mr. George J. T. Clampett,

Mr. Maurice J. Clennon. Mr. Francis McBryan.

Mr. Joseph A. McCullough.

Mr. Bernard F. Shields. Mr. Timothy J. McCormack, who held's Scholarship from the Department. during the Session 1910-11, has been engaged as temporary teacher of Commercial Subjects in the Queen's County for the Session 1911-12; and Mr. John McCuigan, who also held a Scholarship during the Session 1910-11. has obtained a similar appointment in the County Roseommon. These teachers will continue their Scholarships for a second year during the Session 1912-13.

#### SCHOLARSHIPS IN CROCHET-WORK AND SPRICGING.

Ten candidates competed for the three Scholarships offered for the purpose of training teachers of Crochet-work and Sprigging, which were awarded as follows :---

Scholarshins in Crochet-Work.

Miss Agnes J. O'Callaghan, of Bantry, Co. Cork, Miss Annie McElroy, of Clones, Co. Monaghan.

Scholarskip in Sprigging. Miss Mary Ellen Ward, of Letterbarrow, Co. Donegal,

The Scholarships are tenable for one year at the Training School for Lace and Sprigging Teachers, Enniskillen,

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TABLE I.

Table showing by Counties the Amounts Allocated from the Department's Endowning and from Local Rayes for the purpose of Thomneal Instruction in Non-Admicultural Subjects. Academic Year, 1st August, 1910, to 31st July, 1911.

Names of Counties, Urban Districts and County Boroughs.	Alloc	tal atto	n.	Contri fro Depart Endov	buti om	ıt's	Specia Grants Departm Endown	from ent's	Contri fre Local		
	£	8.	ď.	£	8.	å,	£	s. d.	£	8.	d
LEINSTER.											
Courty Carlow: Carlow Urban District,	915	12	3	620	0	0	-		295	12	1
County Dublin: Blackrock Urban District, Eingstown Pembroke Rathmines and Kathgar Urbar District,	740 680 1,350 2,327 2,006	0000	0000	430 500 850 1,250 1,250	0000	00000	200	0 0	310 180 300 1,077 756	0000	00000
DUBLIN COUNTY BOROUGH:	12,706	18	2	(4)9,206	18	2	-		(a)3,500	0	0
COUNTY KILDARE: Athy Urban District, Nass "	1,117	8	5	500	0	0	100	0 0	517	8	6
COUNTY KILKENNY: Kilkenny Urban District,	1,440	0	0	820	0	0	-		620	0	0
King's County: Birr Urban District Tullamore ,,	919	6	8	550	0	0	-		369	6	8
COUNTY LONGFORD: Granard Urban District, Longford ,,	549	15	8	. 410	0	0			139	15	8
COUNTY LOUTH: Dundalk Urban District,	934	0	0	710	0	0	-		224	0	0
Drogheda "	700	0	0	600	0	0	_		100	0	0
COUNTY MEATH: Kells Urban District, Navan "Trim"	751	0	1	500	0	0	-		251	0	1
QUEEN'S COUNTY:	943	1	0	460	0	0	_		488	1	0
COUNTY WESTMEATE: . Athlone Urban District, .	176 450	8	0	450 400	0	0	=		328 59	0	0
County Wexpood: Enniscorthy Urban District, New Ross Wexford	950 284 331 676	0 0 0 14	0 0 5 0	350 250 200 600	0000	0000	100	0 0	600 34 31 76	0 0 0 14	0050
County Wicklow:	1,176	1	0	550	0	0	300	0 0	326	1	0
Втау " " .	520	0	0	400	0	0	_		120	0	0
Totals for Leinster,	33,243	17	8	21,856	18	3	700	0 0	10,686	19	6

(c) Contributions for the financial year ended 31st March, 1911.

TABLE showing by COUNTES the AMOUNTS ALLOCATED, &c.-continued.

Names of Counties, Urbon Districts and County Boroughs.	To Alloc	tal	n.	Contri fre Depart Endov	but m me	ion nt's	Special Grants from Department's Endowment.	Contribution from Local Rates.			
MUNSTER.	£	8.	đ.	£	g.,	a.	£ s. d.	£ s. d.			
Ennis Urban District, Kilrush	849	3	2	550	0	0	-	299 3 2			
COUNTY CORK: Cloudslity Urban District, Rermoy Kinsale Macroom Mallow Midleton Skibbereen	4,496	9	6	2,125	0	0	-	2,371 9 6			
Youghal Queenstown	467	0	0	375	0	0	-	92 0 0			
CORE COUNTY BOROUGH:	3,132	0	1	(a)2,411	8	3	-	(a)720 11 10			
COUNTY KERRY: Killstracy Urban District, Listowel Trales	1,151 619		9	700 525	0	0	30 0 0	451 7 9 64 10 9			
COUNTY LIMITATION:	615	0	0	430	0	0	-	215 0 0			
LDERSON COUNTY BOROUGE: .	1,500	6	3	(0)1,208	11	2	-	(a)291 15 1			
OUNTY TIPPERARY (NORTH RIDING): Newsyn Urban District, Templemore ,, Thurles ,,	976	16	0	660	0	0	-	316 16 0			
COUNTY TIPPERARY (SOUTH ) RIDING) : Carrick-on-Suir Urban District,	880	19	7	480	0	0	_	400 19 7			
Chamel	603	5	10	525	0	0	-	78 5 10			
The The Transfer of The Transfer of The Transfer of Tr	791	. 8	0	450	0	0	-	271 8 0			
COUNTY WATERPORD: Dungarran Urban District,	1,074	3	8	500	0	0	-	574 2 8			
WATEHFORD COUNTY BOROUGH:	1,024	19	4	(e)847	19	11		(a)176 19 5			
l Totals for Munster,	18,14	2 8	11	11,787	19	4	30 0 0	6,324 9 7			

(e) Contributions for the financial year ended 31st March, 1911.

TABLE showing by COUNTIES the AMOUNTS ALLOCATED, &c.-continued,

Names of Counties, Urban Distrects and County Boroughs.	To	tal atto	n.	Anno Contrib from Departs Endown	utle n nem	10	Special Grants from Department's Endowment.	Contri fro Local		
	£	s.	d.	a	8.	á.	2 s. d.	£	s.	d
ULSTER.						1				
County Antem: Ballyelare Urban District,	1,095	18	1	530	0	0	-	565	18	:
Portrush Ballymena Ballymoney Joint Urban and	645 324	10	9	520 210	0	0	=	125 114	10	1
Rural District, Carrickfergus Urban District,	254 432	27	2 6	215 300	0	0	=	39 132	917	;
	20,017		3	(0)11,061	8	4	-	(4)9,016	2	1
COUNTY ARMAGH: Armagh Urban District, Lurgan Portadown	387 437 708 610	10	2 5 9 0	350 (8)600 500	0 0 0	0000	≣	167 87 108 110	17 10 2 0	-
COUNTY CAVAN: Belturbet Urban District, Cavan Cootchill	181	3	6	430	0	0	-	301	3	
Co. DONEGAL : Letterkenny Urban District, }	133	18	4	416	0	0	-	317	18	
County Down: Banbridge Urban District Bangor Holywood Nemry Newtownards Warrenpoint	570 300 391 120 252 740 505 103	15 0 5 0 10	0 0 10 0 3 0 5 6	350 250 250 100 200 600 450 70	0000000	00000000		220 50 141 20 52 140 55 33	ñ	I man
COUNTY FRIDIANAGE: Enniskillen Urban District,	809	0	0	400	0	0	-	409	0	
COUNTY LONDONDERRY : . ). Limayady Urban District,	861	. 3	5	514	0	0		347	3	
Coleraine ,,	504	. 0	0	400	0	0	-	104	0	
LONDONDERRY COUNTY BOROUGH	1,683	14	2	(4)1,363	14	2		(0)420	0	
COUNTY MONAGHAN: Monaghan Urban District, Castleblaymey Carrickmacross ,	737	4	6	425	0	0	- 1	319	4	
COUNTY TYRONE : Chockstown Urban District, Dunzannon Omagb Strabane	1,488	1	4	850	0	0	-	573	1	
Totals for Ulster,	35,495	16	1	21,525	2	6		13,970	13	

(e) Contributions for the financial year ended 31st March, 1911.
 (b) Includes £100 contribution to separate scheme for girls.

TABLE showing by Counties the Amounts Allocated, &c .- continued.

Names of Counties, Urban Districts and County Boroughs.		Allo	otal	œ.	Contr	Annual Contribution from Department's Endowment.		Grant	Special Grants from Department's Endowment.		Contr fr Local	om	
	Ī	e	s.	d.	£	8.	d.	A	8.	d.	e	s.	d.
CONNAUGHT.													
COUNTY GALWAY:	1	1,735	9	0	800		0				935		0
Ballinsslee Urban District,	5	1,100		۰	000		0				240	- 2	. 0
Galvay »		801	0	4	680	0	0		-		121	0	4
COUNTY LEITHIM:		600	0	0	300	0	0	100	0	0	200	0	
COUNTY MAYO: Ballna Urban District, Castlebar Westport	5	1,377	11	10	750	0	0	200	0	0	427	11	10
COUNTY ROSCOMMON: .		750	0	0	450	0	0		_		800	0	0
COUNTY SLIGO:		470	0	0	250	0	0		-		220	0	0
Silgo Urban District, .		640	0	0	550	0	0	-	-		90	0	0
Totals for Connaught,		6,373	14	2	3,780	0	0	300	0	0	2,293	16	2
TOTALS FOR LEINSTER		33,243	17	8	31,856	18	2	700	0	0	10,686	19	6
TOTALS FOR MUNSTER, .		18,142	8	11	11,787	19	4	30	0	0	6,324	9	7
TOTALS FOR ULSTER, .		35,495	16	1	21,525	2	6	-	-		13,970	13	7
TOTALS FOR CONNAUGHT, .		6,373	14	2	3,780	0	0	300	0	0	2,293	16	2
Totals for Ingland, .		93,255	16	10	58,950	0	0	1,030	0	0	33,275	16	10

TABLE

LIST OF TECHNICAL SCHOOLS AND SCIENCE AND ART SCHOOLS during the Financial Year, 1st April, 1910—31st March, 1911, 1st August, 1909—31st July, 1910.

		Prepara	toxy Course.	Speciali	sed Courses.
School No.	Name of School.	No. of Steakents in respect of whees grants were paid.	Amount of Grant.	No. of Straignts in respect of wheen greats were paid.	Amount of Grant.
	LEINSTER.		£ s. d.		R a. d.
6817	Co. Carlow: Carlow: Technical School,		-	3	3 6 2
6811 6218 6163 6408 6956 6041	Go. DUBLIN: Ballsbridge i Technical School, Blackrock: Municipal Technical School, Blackrock: Municipal Technical School, Ballsbridge i School of Commerce, Batlamines: School of Commerce, Batlamines: School of Demostic Economy, Ratlamines: Peninroke Technical School,	= 17	5 6 8 40 3 11 1 2 8 — 16 8 4	55 67 183 194 69 149	55 11 5 115 12 1 339 11 8 238 14 11 55 6 4 300 15 9
6143 6010	Co. Bonouse or Dunian: Christian Brothers' Novitiate, Marino, City of Dublin Technical Schools.	-32	27 8 3	*69 667	38 13 2 1,625 6 3
6795 6442	Co Kildaru: Athy: Technical School,	=	=	4 4	2 17 8 1 9 1
6607	Co. KILEBNNY: Kilkenny: City Technical School,	'11	8 1 4	30	58 15 3
6509 6508	Kine's County: Birr: Technical School, Tullamore: Technical School,	3 4	4 4 4 2 1 2	12 11	9 3 9 12 9 3
6416 6415	Co. Lours: Drogheda: Municipal Technical School, Dundalk: Municipal Technical School,	16	10 19 0 30 14 7	94 64	193 1 10 103 2 5
6924	Co. MEATH: Navan: Technical School,	6	6 19 11	42	35 4 8
6917	QUEEN'S COUNTY: Maryborough: Technical School,	6	4 6 11	24	15 16 1
6576 6806	Co. WESTMEATH: Athlone: Technical School,	6 7	4 10 2 4 10 10	15 7	7 4 8 5 6 1
6620 6190 6347	Co. Wexponn: Emniscorthy: Technical School, New Ross: Municipal Technical School, Wexford: Municipal Technical School,	_ <sub>15</sub>	12 18 5	10 18 48	12 16 10 14 14 0 69 11 8
6697 6457 6102	Co. Wioglow: Arklow: Technical School, Bray: Technical School, Wicklow: Technical School,	10 22 6	13 13 5 36 5 7 8 0 0	26 28 15	57 18 19 56 13 19 20 9 1
	Totals for Leinster,	197	237 15 6	1,894	3,484 12
	MUNSTER.				
6761 6693 6795 6922 6790 6967 6671 6064 6751	CO. CORE: Ballyronare: Technical School, Bandon: Technical School, Bandon: Technical School, Bandry: Technical School, Grand Constitution of the C	= 10	2 16 3 = = = =	9 19 17 3 9 18 11 19 34	21 2 5 27 4 9 7 13 10 1 10 6 14 6 6 25 13 6 49 17 5

Training College Clauses under Section VI.

II.

AND CLASSES, showing the Grants made by the Department in respect of Instruction given during the Academic Year,

Sabor	l of Art.		ees' Classes	Apprent	ices' Classes.		Total.	Schoo
No. of redetata	Amount of Grant.	No. of Stradents in barpost of whom goants were paid.	Amount of Grant.	No. of Students	Amount of Grant.	al Stelents in respect of whom grants were past	Total Grant.	No.
	£ s. d.		£ s. d.		£ s. d.		£ s. d.	
-		-	-	-	-	3	S 6 2	6817
	Ē	-31 -31	25 16 5 68 6 11		Ē	83 89 216 124 62 159	86 14 6 155 16 0 452 1 3 230 14 11 55 6 4 317 4 1	6611 6248 6163 6108 6956 6041
Ξ	=	54 10	109 13 0 28 5 0	÷	=	123 709	148 6 2 1,680 19 6	6143 6010
=	=	=	=	=	=	6	2 17 8 1 9 1	6795 6442
-	-	14	21 0 0	-	-	55	87 16 T	6607
=	=	=	=	- 8	11 1 9	15 23	13 8 1 25 12 2	6509 6508
=	=	-21	32 1 9	=	=	101 101	304 0 19 165 18 9	6416 6415
-	-	-		-	-	48	49 4 7	6924
-	~	-	-	-		29	20 3 0	6917
=	=	=	=,	=		21 14	11 14 10 9 16 11	6576 6806
=	Ξ	Ξ	∃	Ξ	Ξ	10 33 48	12 16 10 27 12 5 69 11 8	6620 6790 6347
Ξ	Ξ	Ε	Ξ	=	Ξ	36 50 21	71 12 3 92 19 5 98 9 1	6697 6457 6702
-		153	285 3 1	8	11 1 9	2,181	4,01313 1	-
minni			-		= = = = 16 19 4	9 19 17 3 9 28 11 19	21 2 5 27 4 9 7 13 10 4 3 10 0 20 20 25 13 6 51 13 6 66 16 9	6761 6563 6765 6922 6700 6667 6671 6064 6751

of the Regulations for Technical Schools, &c.

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## TABLE II.—LIST OF TECHNICAL SCHOOLS AND SCIENCE

		Propara	tory Course.	Special	ised Courses
School No.	Name of School.	No. of Students in respect of where grants were paid.	Amount of Grant.	No. et Strakents in respect of wises greats were paid.	Amount o
			£ s. d.		£ 4. d
	Co. Cong.—continued.				
6621 6615	Kanturk : Technical School, Kinsale : Technical School	=	=	12	0 14
6659	Kinsale : Technical School, Marroom : Technical School, Mallow : Technical School,	-	_	24	18 4
6766	Midleton : Technical School,	=	=	16	22 14
6658	Milistreet : Drishane Convent of Mercy,	- =	_	- 5	
6619 6604	Mallow: Technical School, Midleton: Technical School, Midleton: Technical School, Midleton: Technical School, Millstreet: Technical School, Passage Wost: Technical School, Geomolown: Technical School, Minteskilder: Technical School,	=	=		
	Ringsskiddy : Technical School.	: = :	_	62	183 2 17 1 15 15
6602	Skibbereen : Technical School, .	-	-		17 1 1
6610	Youghal: Presentation Convent, Youghal: Technical School,	: =	=	13 20	36 12
6003 6968	Co. Bonouse or Core: Crawford Municipal Technical Institute, Presentation Brothers' Training College,		_	105 *42	312 16
6958	School of Commerce,	70	138 2 9	172	18 19 1 290 17
6680	Co. KERBY: Killsmey: Trebuleal School			3	4 10 1
6571	Killsmey: Technical School, Listowel: Technical School, Tralco: Central Technical School,	32	37 8 1	56 56	11 9 0 109 10
6039 6981	Co. Bonough of Linerics: Municipal Technical Institute, School of Commerce,	17	15 14 6 7 18 10	136 89	258 16 1 118 0
6852	Co. TIPPERARY: Carrick on Suir: Technical School, Cashet: Technical School, Cloumel: Technical School,		_		25 3 14
6556	Clarinel : Technical School	-10	11 9 6	90	9 13 6
6353 6396	Conmei: Technical School, Emiy: Glovensking School, Roscrea: Technical School, Thuries: Presentation Convent, Timerary: Technical School		-		
	Thuries : Presentation Convent,	_21	36 12 2	22 31	101 8 : 81 0 :
6695		15	17 8 2	34	53 0 1
6809	Co. Watespond : Dungarvan : Technical School, Lismore : Technical School,				
68.08	Dungarvan : Technical School,	- 1	-	9 5	16 18
6810	Tramore : Technical School,	=	= 1	3	2 7
6477	Co. Borough of Wayerford: Central Technical Institute.				
6016	De La Salle Training College,	_10	12 10 0	*201	176 13
	TOTALS FOR MUNSTER,	192	283 0 2	1,456	2,740 15
	ULSTER.				
63.58	CO. ANTRIM:				
6850	Ballymoney : Technical School, Ballymoney : Technical School, Currickfergus : Technical School,	39	78 8 5 41 13 1	313 134	510 1 323 6
6845 6232	Carrickfergus : Technical School, Larne : Technical School,	24 18	24 14 2 32 11 9	109	132 15 219 13 1
6227	Co. Borough of Bellary: Municipal Technical Institute,	517	711 17 11	1,506	8.846 17 4
		511	711 17 11	1,506	3,340 17 4
6391 6038	Co. Armach : Armagh : Municipal Technical School, Armagh : Natural History and Philosophical	22	34 19 6	86	165 7 6 13 5 6
0499				12	
5367 5374	Lungan : Convent of Our Lady of Mercy, Lungan : Municipal Technical School, Portadown : Municipal Technical School,	15 57	25 4 10 110 18 9	33 67	67 3 10 133 6 7
0.024	Portagown: Municipal Technical School, .	30	32 19 6	104	149 17 16

357

Scho	ol of Art.	Teach	zz' Classes	Apprent	ices' Classes.	9	otal.	
No. of straignts	Amount of Grant.	Na of Soutenax in respect of whose great. were poid.	Amount of Grant.	No. of Students	Amount of Grant.	Total No. of Students to corpect of vibous grants were paid	Total Grant.	School No.
	£ s. d.		£ s. d.		£ a. d.		£ s. d.	
	=		Ē		110 18 2	13 24 1 16 38	0 14 3 7 5 0 18 4 4 4 3 10 7 7 22 14 2 2 10 18 2 1 11 11 11 7 7 1 4 188 2 17 1 6	6621 6615 6659 6884 6766 6986 6619 6619
III III III III III III III III III II		=	Ē		Ē	16 38 5 3 62 7 29 13	7 1 4 188 2 0 17 1 6 15 15 5 15 15 5 36 13 8	6619 6604 6759 6602 6434 6610
188	1,208 10 4	Ξ	Ξ	Ξ	Ξ	293 42 243	1,521 6 5 18 19 10 429 0 6	6003 6968 6958
Ξ	Ξ	= 91	= 31 4 0	Ξ	Ξ.	3 109	4 10 8 11 9 0 178 2 10	6686 6678 6571
_96	395_8 0	52	76_0 6	_16	27_0 0	317 96	772 19 11 125 19 0	6031 698
	=		Ē	Ξ,	= 28_2 6	9 7 103 9 43 31 19	25 3 10 9 13 6 231 16 8 28 2 6 138 0 4 81 0 3 70 9 0	6850 6880 6554 6250 6394 6141 6693
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_59	156_17 6	_22	41_7 6	_19	46_5 11	184 201	433 14 2 917 11 5	6477
323	1,760 15 10	95	148 13 0	94	229 5 11	2,160	5,162 9 10	E
Ξ	Ē	- 19	117 6 0 74 3 3 40 7 6	Ξ	Ξ	295 180 113 146	705 15 8 438 2 11 157 9 3 292 13 2	6358 6356 684 623
470	2,228 4 4	188	364 6 3	10	49 5 1	2,691	6,700 10 11	622
=	=	=	=	=	=	108 12	180 7 6 13 5	603
Ξ	Ξ	=,,	96 14 6	=,1	61 14 10	124 186	92 T 244 5 341 6	643 636 657

of the Regulations for Technical Schools, &c.

TABLE II.-LIST OF TECHNICAL SCHOOLS AND SCIENCE

			Prepar	atory Course.	Specia	lised Cor	ober 5
School No.	Name of School.		No of Stadents as respect of Sheer practs were your	Grant.	No of Straignt, in respect of whom grants were paid.	Amon	mt o
6582 6587 6572 6544 6645 6748	Co. Down: Bantriage: Technical School, Bangor: Technical School, Holywood: Technical School, Newry: Municipal Technical School, Newtownards: Municipal Technical School Warrampoint: Municipal Technical School	hool,	20 9 12 29 30	37 0 10 11 7 0 21 11 10 39 6 9 50 1 1	48 54 40 103 46	95 124 61 224 53	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6872	Co. FERMANAOM; Enniskillen: Technical School,		8	5 3 1	15	18	9 .
6235 6976 6963	Co. Londondermy: Coleraine: Technical School, Limavady: Technical School, Magherafelt: Technical School,		13 38 16	25 0 2 55 14 11 25 9 0	107 46 58	62 1	9 1 5
6037	Co. Bonough of Londonderry : Municipal Technical School,		46	55 0 10	155	407	3
612 L	Co. Monaghan : Castleblayney : Technical School,		-		23	27	4
6701 6581 6707 6708	Co. Tyrone: Cookstown: Technical School, Dungannon: Technical School, Omagh: Technical School, Strahane: Technical School,		14 14 17 39	20 19 6 18 18 9 15 18 9 51 0 6	50 38 40 59	92 1 65 63 1 97 1	0 1 0 2 3 1
	TOTALS FOR ULSTER, .		1,073	1,538 8 3	3,247	6,763	1
6596 6066	CONNAUGHT. Co. Galway: Balinasics: Technical School. City of Galway Technical Institute,	: :	1 16	0 14 5 9 7 8	1 22	1 44	1 :
6765	Co. Since : Since : Municipal Technical School,		9	10 9 8	87	162 1	1
	TOTALS FOR CONNAUGHT, .		24	20 11 9	110	197 1	4
	TOTALS FOR LEINSTER (26 Schools), TOTALS FOR MUNSTER (42 Schools),		197 199	257 15 6 283 0 2	1,824 1,456	3,484 1 2,740 1	5 1
	TOTALS FOR ULSTER (36 Schools), TOTALS FOR CONNAUGHT (3 School		1,078	1,538 8 3	3,247 110	6,763 197 1	

TOTALS FOR IRELAND (97 Schools), .

359

## AND ART SCHOOLS AND CLASSES .- continued.

Sebo	ol of Art.	Teach	ers' Classes.	Apprent	does' Classes.		Total.	
No. of Students	Amount of Grant.	No. of Students in re-peck of winer grants were paid	Amount of Grant.	No. of Students	Amount of Grant.	Tessi No. of Students in respect of when granes were paid.	Total Grant.	Schoo No.
	E s. d.		2 2 4		£ s. d.		£ s. d.	
HIII	Ē	= 31 = 20 =	77 15 3 50 13 9		=	108 63 52 152 85 84	210 3 7 135 8 3 82 13 6 294 16 0 103 13 0 30 19 0	6582 6587 6578 6544 6645 6748
-	- 1		-	9	136 3 0	29	136 14 5	6872
Ξ	Ε.	23 14 14	34 7 6 24 1 3 25 8 9	Ξ	Ξ	143 98 88	290 10 2 142 7 5 138 8 0	6235 6916 6963
138	375 10 8	33	74 18 9	-	-	372	912 13 3	6037
-		-		-	-	23	27 4 2	6121
Ξ	Ξ	Ξ	Ξ	=	Ξ	64 52 57 98	113 10 4 86 19 5 81 11 5 148 19 4	6701 6581 6707 6708
606	2,603 15 0	453	960 2 9	30	237 1 11	5,411	12,103 9 4	=
=	=	=	= 24 18 9	=	=	36 114	1 16 1 53 8 5	6596 6066
		18	24 18 9	_		152	243 4 7	0700
393	 1,760 15 10 2,603 15 0	152 95 453	285 3 1 148 12 0 960 3 9	8 94 30	11 1 9 229 5 11 237 1 11	2,181 2,160 5,411	4,018 18 1 5,162 9 10 12,102 9 4	Ξ
-		18	24 18 9			159	243 4 7	_
931	4,364 10 10	718	1,418 16 7	132	477 9 7	9,904	21,526 16 10	-

			EXP	RIMES	TAL SC	DENCE	DRAWING				
No. of School	io. if Name of School		io. of recogni	Stude: Ised for rant	nts er	Amount of Gennt	No. of Students recognised for Grant			Анцона	
		1st Year	2nd Year	3rd Year	ith Year		1st Year	2md Year	3rd Year	4th Year	Gragi

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	g
EXPERIMENTAL SCIENCE	DRAWING

Instruction in	the Subjects of the Departs	nent's Programme give
	EXPERIMENTAL SCIENCE	DRAWING

Instruction in	the Subjects of	the Depar	tment's	Programme	give
	EXPERIMENTAL	Science		DRAWING	

		EXPERIMENTAL!	BOXENCE	DRAWING
	Instruction in	the Subjects of	the Department's	Programme give
oter or white	DECOMBER 1	catoons, shorting	enc GRANTS part	oy one Departmen

LIST OF DAY	SECONDARY SCHOOLS, showing the Grants paid by the Departmen
	Instruction in the Subjects of the Department's Programme give

LEINSTER. Co. CAHLOW: Bagenshtown: tion Convent Presenta 16

Bagensistown : St. Joseph's

Carlow: Convent of Mercy

Tullow: Brigidine Convent

Tullow : St. Patrick's Semi-

Co. DUBLIN: Balbriggan: Loreto Con-

Palisbridge : Masonic Girls'

Blackrock : Deminican Con-

Blackreck : Day Trades Preparatory School Cabra : St. Mary's Domini-

So Castleknock : Morgan's En-

Castleknock : St. Vincent's

College. Chapelland : Mount Saelr-

Seminary . Clouskeagh . Masonic Boya School . Dailey : Loreto Abbey

Clondalkin : St Joseph's

can Convent. Casticknock: Mercer's

Knockbeg: St. Mary's College Rathvilly: D'Israeli School

Christian Brothers

6188

6260

6182

6350

6107

6224

6093 Blackrock College

6249

6863

6007

6181 6351

6252

6122

6281

6008 Donnybrook : St. Mary's University College, Kingstown : Christian Bro they Schools.

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tre			
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14 13 5

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during the Financial Year, 1st April, 1910-31st March, 1911, in respect of

MANUAL INSTRUCTION			on .	DOMESTIC ECONOMY							
No. of Students recognised for Grant				Amount of Great	No. of Students recognised for Grant				Amount of Grant	Total Amount of Grants	No Seh
N Suc	2nd Year	3rd Year	Ath Year		1st Year	2nd Year	3rd Year	4th Year			

5 15 4 15 11 

50 19 R 125 19 395 10 

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## TABLE III.-LIST OF DAY

			EXPERIMENTAL SCIENCE						Drawing					
No. of School	Name of Sobool	N	o. of I recogn Ga	Studen deed for camt	nto vr	-	Amount of		b	io. of recogn Gr	Stude feed fo aut	nts or	Amount	
		1st Your	2nd Year	3rd Year	4th Year	Ga	ant		1st Year	2nd Year	3rd Year	4th Year	Grant	
	Co. DUBLIN-(confinued.)					8	ø,	d.					2 5. 6	
6305	Rathmines College	1.5	13	6	-	61	0	7	15	13	-	-	5 17 3	
6929	Rathminis Loreto Con-	10	6	-	-	18	14	8	10	6	- 4	2	13 19 2	
6974	Rathmines : Sgoll Eanne (St. Enda's School)	20	8	-	1	19	- 6	4	20	8	-	1	10 9 6	
6251	Rathmines St. Mary's College.	14	22	5	3	80	4	8	14	22	-	-	8 14 7	
6802	Ringsend : Pembroke Day Trodes Preparatory School	32	17	11	-	160	16	6	3:2	17	11	-	66 7 8	
6159	Co. Bohough of Dublin : Alexandra College	-	4	14	5	87	9	9	-	4	-	1	1 7 10	
6264	Alexandra School	41	31	1 -	-	91	7	8	41	31	-	-	27 19 9	
6142	Belvedere College	16	,82	1	2	57	19	6	16	23	-	-	9 10 6	
6996	Bertrand Intermediate School for Girls	32	12	_	-	59	14	8	32	12	- 6	-	18 9 5	
6371	Catholic University School-	11	10	5	-	29	0	11	11	10	-	-	4 3 6	
6162	Christian Brothers' Schools,	49	38	17	7	155	5	8	49	38	17	7	61 6 16	
6219	James's Street. Christian Brothers' Schools,	27	22	-	-	55	17	11	27	22	1 -	-	16 5 6	
6139	Marino ChristianBrothers' Schools,	38	14	-	-	69	15	7	38	14	-	-	16 5 10	
6156	Nth. Brunswick St. Christian Brothers' Schools,	174	105	63	30	521	2	2	174	105	-	-	68 15 1	
6117	Nth. Richmond St. Christian Brothers' Schools,	87	69	11	19	267	9	5	87	69	-		49 6 1	
6344	Symps Street Christian Brothers' Schools,	43	25	16	-	117	9	5	43	2.5		_	92 15 10	
6647	Westland Row Church Home School, Clyde	6	5	- 4	_	28	9	e	6	5	_	-	3 18 2	
6091	Road Diocesan Inter, and Com- mercial Seh, for Girls	36	21	_	-	64	0	9	36	21	-	-	16 5 10	
6152	mercial Sch. for Girls Diocessa School for Boys	19	21	6	3	89	ò	10	19	31	-	-	11 1 2	
6082	Dominican College, Ecoles	12	63	34	7	194	13	8	72	62	_	-	37 19 2	
6004	Street, King's Hospital	83	38	21	6	167	¢	5	93	33	_	l - l	15 2 6	
6065	Loreto College, St. Stephen's	22	29	6	_	81	18	7	99	19	_	_	20 T 6	
6031	Loreto Concest Vesti-	19	11	4	-		11	2	19	11	_		9 3 10	
6168	Great George's St. Mountagy School	39	31	40	22		10	2	39	37	_	-1	22 0 0	
6034	Rutland High School .	15	13	4	-	41	2	11	15	13		-	13 17 9	
6843	84. Andrew's College .	36	44	27	9	224	4	4	36	44	_	_	27 13 5	
6132	St Margaret's Hall, Mespil.	4	9	2	3	25	19	0	4	. 0	_		4 3 1	
6115	St. Vincent's Orphanage .	99	23	20			17	3	29	23	_		20 7 8	
6127	The High School	43	18	19	3	129		2	43	18	8	2	28 13 10	
6146	Wesley College	21	16	10	-	65	3	11	91	16	4	_	18 16 3	
6217	Go. Kildare: Atay: Christian Brothers'	- 61		7	_	60			21		١.			
6285	Schools Celbridge : Girls' School	22	11	,			3	9	28	11	7	-	11 19 0	
6325	Monasterevan : Christian	18	39	_		74	6	9	28	29	7	-	30 15 1	
6221			- 1	_		18	4	3		8	-	-	3 18 4	
6464	Naus : Christian Brothers' Schools	17	19	-		31	2	0	17	10	-	-	€ 10 10	
	Newhridge: Dominioan College	11	11	-	-	28		6	11	11	-	-	3 12 7	
6139	Salfins: Clongowes Wood College	37	57	21	5	333	17	11	37	51	8	-	29 17 6	

DOMESTIC ECONOMY

1		
	No. of Students recognised for Great	No. of Students recognised for Grant

MANUAL INSTRUCTION

lst Year	2nd Year	3rd Year	Year	Grant	1st Year	Ind Year	Srd Year	4th Year	Grant			
				£ s. d.					A s. d.	£	й.	d.
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	_	_	_	_	_	_	_	- 1	-	38	17	7
-	-	_	-		-	-	-		-	119	7	5
-	-	_		-	-	Acres 1	_	-	-	67	9	11
-		-	-	-	95	10	1	6	28 9 4	100	18	5
-		-	-	-	-	-	-	-	-	33	3	11
-	-		-	-	-	-		191	-	196	12	6
97	91		-	15 18 1	-	-		- 1	-	88	1	6
33	14	-	-	15 9 9		-	-	-	-	101	11	2
190	38	-	-	58 9 6	-	-	-	-	-	648	12	3
42		-	-	13 14 10	-	-	-	- 1	-	330	10	4

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22 224 53 43

			1.	ABLE III.—LIST	OF DAY		
		Experimental S	CHENCE	DRAWING &			
No. of . School	Name of School	No. of Students recognised for for Grant	Amount of Grant	No. of Students recognised for Great	Amount of Grant		
		Let 2nd 3rd 4th Year Year Year Year	Grant	1st 2nd 3rd 4th Year Year Year Year	ownt		

a. Kelkenny ; Jallen : Christian Brothers Schools

Kilkenny : Loroto Convent Kilkenny : St. Kieren's

Kilkenny: Day Trades

Co. LONGFORD : Longford : St. Mel's College

Co. LOUTH: Drogheda: Christian Bro-

Drogheda: Grammar School

Dundalk : Educational In-Dundalk : St. Mary's Col MEATH: 6108

Cells: Christian Brothers' Schools

Abbeyleix : Preston School Castletown: De La Salle

Maryborough: Christian Brothem' Schools Mountrath : Mountrath : St. Bricki's Co. WESTMEAVE: Athlene . Renelsgh School Athlone: St. Marr's School Mullinear: Christian Bro-

thers Schools Mulitagar: Loreto Com

8t Finlan's 22 rited image digitised by the University of Southernoton Library Digitisation Unit

Navan : Loreto Abber OTERN'S COURTY ZUKEN'S COUNTY: Abbeyielx: Brigidine Con-

Dundalk: Christian

Dundalk :

Preparatory School ing's County : Str : Presentation there' Seminary

Brothers Schools (Roscrea): Mount 20 18

13

18

37

16 14

19

Bro

6304 Gorosbridge : Brightine Kilkenny: Christian them' Schools

6055

6968

6760

6203

6362

6163 6098

6059

6089

6536 vent Mullingar : College 6561

# No. of Students recognised for Grant

DOMESTIC ECONOMY

SECONDARY SCHOOLS, &c .- continued. MANUAL INSTRUCTION

No. of Students

recognised for

9 16 - 10 13 3 1113 5 941 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						4th Year	3rd Year	2nd Year	1st Year	uı	Orac	ith Year	3rd Year	2nd Year	1st Year
		d.	b-	4	£ a, d,					s d.	8 .				-
10 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6304	3	13	50	-	- '	-	-	-	4 1	10	-	-	16	9
	6458	5			18 18 0	- 1	2	5	9		_	_	-	-	
13 11 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6059	8			-	- 1		-	-		-	-	-	_	
13 11 0 0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5187	2	14	101	-	- 1	-	-	-		-	-		-	
13	6268	8	6	63	16 8 2	- 1	5	8	8		_	-	_	_	
13 8 6 15 615 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6135	3	6	121	-	- 1	-	-	_		_	_	_	_	_
13 5 - 5 6 2 106 3 6 5 - 4 5 0 106 3 2 4 1 5 7 5 106 3 13 4 2 5 106 3	6760	3	19	152		- 1	-	-	_	6 9	40	_		11	- 10
13 6 2 - 4 2 6 2 10 16 3 16 2 1 10 10 10 10 10 10 10 10 10 10 10 10 1															10
13 8 5 6 2 5011 6 5 - 6 1 5 7 7 8 1015 2 4 1 - 5 7 8 1011 13 4 7 8 5034	6265	7	18	61	_	- 1		_	_			_			
16 2 16 2 16 2 16 2 16 2 16 2 16 2 1	6362	6	11	50	_	_	_		_						
2 4 1 3 7 8															13
21 — — 4 2 1 — — — — 90 16 35 0 — — — — — — — — 36 0 19 19 19 19 19 19 19 19 19 19 19 19 19	6849	5	3	246	-	- 1	-	-	-	5 0	4	-	-	5	6
21 — — 4 2 1 — — — — 90 16 35 0 — — — — — — — — 36 0 19 19 19 19 19 19 19 19 19 19 19 19 19															
31 35 0	6228	7	4	101	-	- 1	-	-	-	7 8	3		1	- 6	2
31 35 0															
	6163	8	16	90	-	- 1	-	-	_	2 4	- 4	_	_	_	91
94 19	6028	2	0	3.6	_	- 1	-	_	_		_		_		
	6173	8	19	96	_	_	-		_	9 1			-		27
3 3 7 13 2 49 15	6350	7	15	10	7 13 2	3 1	3		_						
108 11	6089	3	11	103	_			1					_	_	
	6656	1	17	36	_									_	_

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> 148 16

134 16

106 15 

Total Amount Grants

TABLE	III.—LIST OF DAY	
	DRAWING	
	of Students programed	

Year Year

Amount Genne

TABLE	$_{ m IIIList}$	OF	$D_{\Lambda}$

93

9,319 1,785

13

6		
	TABLE	ш.

Amount

34

97 10

98 14

91

125 13

61 16

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27 19 10

17

36 EXPERIMENTAL SCIENCE No. of Students recognised for Grant

2nd

2

10

Name of School

Co. WEXPORD.

Gorey : Loreto Abbey

New Ross : Ciristian Brothere Schools New Rose : Good Counsel College New Ross: John Ivory

Newtownbarry : St. Mary's Wexford: Christian Bro-

Wexford: Loreto Convent Wexford : St. Peter's Col-Worford : The Tate School Wicerlow: 0029

MUNSTER. CO. CLARI 6137

Elanis : St. Flannan's Col-

Enon : St. Marr's School, Convent of Mercy Convent of Mercy Christian Killrush : Chi thers Schools Consc 1 Co. Coux: Blackrook: Ursuline Con-Butteyant : 8t 0075

> Charlevalle : St. Joseph's Convent of Mercy Denerale; Christian Bro-

Fermoy: Loreto Convent

Middeton : Christian Bro-

Mercy Queenstown : Presentation Brothers' College

ther Schools Midleton College 6140

> Mitchelstown: Christian

Convent

Convent of

Fermey: St. Colman's

Ennis: C 6333

Loroto Convent TOTALS FOR LEENSTEIN

Christian Brothers'

Mary'r Convent of Mercy Charleville : Christian Bro-

32

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6104 Enniscorthy : Brothers' Scho Christian 10

6161

6686

6063

9219

6240

6308

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6169

6595 Maliow: Patrician Aga

6131

DOMESTIC ECONOMY

## SECONDARY SCHOOLS, &c.—continued. Manual Instruction

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18

19

	Gre	ned for		Amount		recogni Gr	sed for ant		Amount	Amount of Grants	School
jet Test	2nd Year	3rd Year	4th Your	Grans	1st Year	2nd Year	3rd Year	ith Year	Grant		
				E s. d.			_		f. s. d.	£ 0. d.	-
15	7	-	-	7 9 7	-	-	-	-		82 16 8	6104
-	1911	-	-	-		100	7	4	13 4 0	56 14 9	6249
-	-	-	-	-	- 1	-	7	7	20 13 7	64 5 4	6085
25	***	-	-	6 19 10	-	-	-	- 1	-	T1 .8 5	6161
		-	- 1	-	-		-	-	-	40 11 4	6040
-	-			-	-	-	-	- 1	-	7 11 4	6664
***		-	-	-	25	14	8	1	2T 1T T	169 14 11	6733
13	14	-	-	15 9 4	-		-	-	- 1	100 8 5	6341
-	-	-	-	-	-	-	7	- 1	8 13 5	85 10 3	6086
9	6		- 1	5 6 0	-	-	-	-	-	31 15 9	6570
-	-		-		-	-	-	-	-	47 1 0	6330
	-		-	, -	-		8	-	3 19 6	78 7 9	6022
674	290	58	***	458 11 7	162	76	171	81	454 5 11	10,593 13 1	=
_		_			_	_		-	-	113 13 4	6137
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14	12		-	8 14 6	-	-		- 1	T 14 10	64 10 3	6163
12	-12		-		-	-	-	- 1	-	67 10 4	6283
	_		-	3 13 1	-	-	-	-	-	72 6 10	6395
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Name of School

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Christian Brothers' School

Presentation Brothers' Co

High School, Richmond

Intermediate School, Rutland Street. Laurel Hill Convent

Mount St. Alphonsus

St. Munchin's College

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6317	Lestowel: St Michael's	29	17	- 6	-	71	0	11	10	17	-	-	13	0	1
6179	Trake : Christian Brothers'	33	19	18	-	99	13	0	33	19	-	-	13	14	4
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101	Carriele-on-Sole : Chelstien	18	1.5	12	-	48	4 5	18	1.5	-	-	8 5
361	Brothers' Schools Cashel : Christian Brothers'	12	9	_	-	20	8 16	12	9	-	-	5 5
147	Schools Cashel: Presentation Con-	7	9	_	-	27	9 1	7	9	-	-	7 11
208	Cashel; Rockwell College	64	36	14	5	177	8 11	64	36	-	-	23 0
394	Clonwel: Christian Bro- thera' Schools, St. Mary's	10	11	2	-	24	9 8	10	11	-	-	T 6
134	Clonmel : Christian Brea.' Schools, 88. Peter & Paul	24	13	9	-	47	2 (	24	13	-	-	8 19
079	Clonmel : Grammar School	10	1	3	-	37	19 1	10	7	-	-	6 15
130	Clonmel: Day Trades Pre-	12	-	-	-	32	4 6	12	-	-	-	7 5
220	paratory School Newsgh : Christian Bro- thers' Schools	23	11	7	-	47	13 6	23	11	-	-	7 18
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148	Thurses: Presentation Con-	22	7	_	-	38	15 (	22	7	-	-	19 0
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343	Cappoquin : Mount Mel- leray Seminary.	23	21	. 14	11	100	0 2		21	-	-	10 12
214	Dungaryan : Christian Brothers' Schools	91	16	2	-	41	16 2		1.5	-	-	8 12
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204	Lismore : Christian Bro- thers' Schools	19	6	5	-	4.2	17 8	19	6	-	-	6 16
191	Tramore: Christian Bro- there Schools	13	9	-	П	93	5 6	13	9	-	15	5 10
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118	Christian Brethers' Schools,	43	33	13	Y	102	7 13		22	-	-	13 10
165	Mount Sion Christian Brothers' College,	19	18	12	-	64	18 1		13	10	-	17 10
034	Waterpark. Convent of the Sacred Heart, Ferrybank Girls' High School	40	16	7	4	99	1 4		16	7	3	97 3
651	Girls' High School	8	5	-	-	1.5	12 4	, 8	5	-	-	2 10
074	Newtown School .	14	-	2	-	19	14		-	-	-	5 1
100	St. Anne's High School, Ursuline Convent	33	23	9	3	107	18	33	28	-	-	16 1
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Name of School

ULSTER.

Ballyclare: Intermediate

Ballymoney : Intermediate

Carrickfergus : Ladies' Col-

Large : Grammar School Larue : Intermediate School

Co. BOROUGH OF BELFAST !

Christian Brothers' Schools.

Collegiate School, Brook-

Municipal Day Trades Pre-

Royal Academical Institu-

St. Dominio's High School

Armagh: Christian Bro-

Portudown : Ladies' School

Cavendish College Portadown: Day Trades

Armagh : Royal School

Rosetta High School

St. Malachy's College

CO. ARMAGE:

vale Avenue Girls' Collegiate School,

Convent of the

Heart of Mary

Brothers' Schools 31

Brothers' Day

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6071 Victorio College

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6953 Lurgan College Portadown: 6833

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Domestic Economy

No. of Students
recognised for

SECONDARY SCHOOLS, &c.—continued.

MANUAL INSTRUCTION

No. of Students recognised for Grant

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No. of School	Name of School	No. of Students recognised for Grant					Amount		No. of Students recognised for Grant				Amount	
		1st Year	2nd Year	3rd Year	4th Year		ant		1st Year	2nd Year	3rd Year	4th Year	Grant	
	CO. CAVANI							a					6	
6181	Cavan : Royal School .	8	8	6	-	2 32	18	ñ	8	8	-	-	7 1 11	
6124	Cavan: 8t. Patrick's College	21	24	21	-	93	5	5	21	24	-	-	12 3 2	
6213	Co. DONEGAL: Letterkenny: Loreto Con-	16	11	_	_	38	9	4	16	11	3	2	17 6 1	
6807	Lettercenny : St. Eunan's	18	12	6	-	43	9	0	18	12	-	-	7 18 10	
6062	College Lifford : Prior Schools	18	13	2	5	53	13	6	18	13	-	-	12 19 5	
6087	Raphoe: Royal School .	17	9	12	6	121	5	0	17	9	-	-	11 2 3	
6206	Co. Down: Bantridge: Academical In- stitution	19	15	4	-	59	4	2	19	15	-	-	9 18 1	
6608	Banbridge : Excelsior Aca- demy		1 -	7	I - I	32		3		3	-		3 4 9	
6857	Bangor: Endowed School	19	15	8	-	57		1	19	15	-	-	9 6 2	
6316	Bangor: Glenlola School	8	5	9	-	15		0	6	5	-	-	5 0 3	
6226	Bangor : Ladies' Collegiate School	4	4	1		10	18	4	4	4	-	-	2 14 0	
6232	Banger : Ladies' School,	4	2	4		17	18	9	4	2	-	-	2 13 11	
6075	Holywood : Upper Sullivan School	18	12	7	6	97	3	6	18	12	4	-	16 11 3	
6171	Newry : Christian Brothers'	14	10	9		50	4	5	14	10	-	-	6 7 10	
6263	Newsy: Intermediate School	20	31	-	-	40	13	4	20	21	-	-	9 15 0	
6092	Newry : St. Colman's College	8	12	3	4	53	14	4	8	12	4	3	12 12 9	
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١	6124	Cavan: St. Patrick's College	21	24	21	-	93	5	5	31	24	-	-	12	3	
	6213	Co. DONEGAL! Letterkenny: Loreto Con-	16	11	_	-	38	9	4	16	11	3	2	17	6	
ı	6807	Letterkenny : St. Eunan's	18	12	6		43	9	0	18	12	-	-	7	18	
ı	6063	College Lifford : Prior Schools .	18	13	2	5	53	13	6	18	13	-	-	12	19	
ı	6087	Raphoe: Royal School .	17	9	12	6	121	5	0	17	9	-	-	11	2	
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Magherafe t: dowed School Rainey En-

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High School coleraine : Ursuline Con

School Intermediate School Coleraine

Co. BORDUNG OF LONDON-DERRY Christian Brothers' School, Brow-of-the-Hill

Convent of Our Lady

Strand House School

Mercy Forle College 

Gordonville

stitution Coloraine

Coleraine : Limayady : Roebank  39 17 

87 12 

41 14 

8 19 11

66 13

TABLE III.	-List	or	1
		_	

## SECONDARY SCHOOLS, &c.—continued,

	MA	NUAL I	NSTRUCT	1007		De	OMESTIC	Econ	OMEX		
		Amount		No. of recogni	Total Amount of Grants	No. of School					
lek Tear	2nd Year	3rd' Year	4th Year	Grant	1st Ind Srd 4th Year Year Year Grand		Grant		_		
				8_8. 4.	_	_	_	_	2.4	40 °0 10	616
	=	=	-	_	-	-	-	-	- 1	105 6 7	612
_	_	_	_	_	15	5	2	8	21 19 11	77 15 4	637
_		-	- 1	_	-	-	-	-	-	51 7 10	680
_	_	-	- 1	_		l –	l –	-	- 1	66 11 11	606
-		-	-	-	-	-	-	-	-	182 7 8	606
_	_	_	_	_ (	_	-	_	_	_	69 2 3	620
_	-	_	- 1	-	-	-	-	-	-	S6 1 0	660
-	_	_	- 1	_	-	i –	-	-	-	66 16 3	660
_	-	-	- 1	-	-		-	-	-	20 11 3	631
_	-	-	- 1	- 0	-	-	-	-		13 12 4	622
_	-	_	- 1	-	-	-	-	-	-	20 12 6	623
9	5	-	I – I	6 8 8	-	-	-	-		120 3 5	603
-	-	-	- 1		-	-	-	-	-	56 12 3	617
10	11	-	- 1	9 2 2	7	11	-	-	8 6 4	67 15 10	626
-	-	-	-		-	-	-	-	-	66 7 1	601
_	_	_	_		-	_	-	-	-	63 15 0	616
-		-	-	-	-	-	-	7	-	67 1 7	657
		_	-	_	_	_	-	_	_	126 19 1	61:
_						_	_	-	_	91 18 11	612
_		_	1 – 1	_	_	_	_	l _	-	30 10 11	665
			- 1						1	16 10 2	496

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7 19 6

9.4

71 7 8 

1			EXPE	KINLEN	TAL B	L SCHROD				DRAWING						
No. of School	Name of School	N	No. of St recogniz- Grea		nts or		of	-	No. of Students recognised for Grant					Amount of		
		1st Year	2nd Year	3rd Year	4th Year				1st Year	2nd Year	3rd Year	4th Year				
6643	Co. Monaghan : Carriesmacross : Patrician					£	*-	đ,					L	٤.	d	
6923	Brothers' School, Carrickmacross; St. Louis'	13	12	12	-	12	9	.4	13	12	3	_		19		
6213	Convent Carrickmacross : Viscount Weymouth's Grammar	7	4	3	-	166	19	3	27	4	-	_	22	11 8	8	
6196	School Monoghan ; Christian Bro-	18	0	2	-	27	7	10	18	9	_	-		11	0	
6225	there' Schools Monaghan ; St. Louis' Con-	40	25	13	-	156	7	4	40	25	_	_	25	4	В	
6918	Monophan : St. Macarten's Seminary	23	12	18	9	91	17	4	23	12	-	-	7	0	3	
63.22	Co. Tynone : Cookstown Academy .	11	12	8	l .	35	13	4	11	12	_	_	6		11	
6128	Cookstown : Ladies' School	16	10	5	-	45	19	9	16	10	.7	1	20	11	1	
8008	Dungannen: Girls School	16	9	2	-	40	12	7	14	9	-	-	0	7	8	
6231	Dungannon : Royal School	18	19	9	-	67	11	7	18	19	-	-	11	4	2	
6020	Dungannon : St. Patrick's Academy	6	6	2	-	10	2	2	6	6	-	-	2	15	6	
6676	Omagh Academy	4	7	2	-	19	9	9	4	7	-	-	- 6	19	4	
6189	Omagh: Christian Bro- thers' School	20	22	6	2	15	10	9	30	23	-	-	7	19	1	
6083	Omagh : High School .	17	6	7	-	48	11	8	17	6	7	-	13	19	11	
6911	Omagh : Loretto Convent	16	14	7	4	82	3	1	16	14	-	4	13	3	4	
	TOTALS FOR ULSTER, .	1,628	1,159	418	116	6,260	6	8	1,428	1,132	140	34	1,194	0	9	
	CONNAUGHT.															
6639	Co. Galway: Ballinnsloe: St. Joseph's College	15	15	7	6	61	5	3	15	15	_	_	6	18	8	
6909	Galway : Dominican College	14	8	-	-	21	0	2	14	8	-	-	4	8	6	
6067	Galway : Dominican Con- yent, Taylor's Hill	12	7	- 5	-	35	2	2	12	7	5	2	19	1	3	
6242	Galway : Grammar School,	- 8	- 6	- 6	-	29	13	5	8	6	-	-	- 4	8	5	

6278	Westport: Christian Bro- thers' Schools	20	10	18	-	71	7	2
6265	Co. Roscommon: Ballaghadereen: Diocesan Coilege	15	13	9	-	46	7	3

ORTS

Galway : St. Ignotius' College, Galway: St. Foseph's

Seminary Tuam : Christian Brothers'

Team : St. Jarinth's College

D. MAYO: Ballina: St. Muredach's

Coffege Hillimagh: St Louis' Con-

SECONDARY SCHOOLS, &c .- continued.

	MA	NUAL I	1819CONT	ON		Doxn	narro E	CONOMY			
3	No. of Students recognised for Grant  2 and Srd 4th g Year Year Year			Amount of Grant		No. of : recogni Gr	Student ised for ant		Amount of Grant	Total Amount of Grants	No. of School
ist Year		Srd Year	4th Year		1st Your	2nd Year	3rd Year	4th Year			
				E a. u.					R 8. 1.	£ s. d.	
-	-	-	- 1	_ `	-	-	-	- 1	- 1	16 9 2	6643
-	-	-	- 1	-	28	11	13	9	87 7 6	276 10 1	6223
-	-	-	-	-	-	-	-	- 1	-	17 7 7	6213
13	-	-	- 1	4 4 7	-	-	-	-	-	37 3 5	6196

-	-	-	-	-	-	-	-	-	-	17	7	7	6213
13	_	-	-	4 4 7	-	-	_	-	-	37	3	5	6196
-	-	-	-	-	13	3	19	4	43 4 T	224	16	7	6225
1 - 1	-	-	-	-	-	-	-	-	-	98	17	7	6078
-	-	-	-	-	-	-	-	-	-	48	2	3	6322
-	-	-	-	-	-	-	-	-	_	66	10	10	6128
-	-	-	-	_	-	_	-	-	-	50	0	3	6006
	-	-	-	-	-	-	-	-	_	. 78	15	9	6231
-	-	-	_	-	-	-	-	-	-	21	17	8	6990
-	-	-	-	-	-	-	-	-	_	34	3	1	6676

1 -	-	-	-	- 1	-	-		-	-	-	- 1	-			66	10	10	6128
-	- 1	-		-	-	_		-	-	-	-	-			50	0	3	6006
-	-	-	-	- 1	-	-		-	-	-	- 1	-		-	. 78	15	9	6231
1-	-	-	-	- 1	-	_		-	-	_	-	-		- i	21	17	8	6190
1-	- 1	-	_	-	-			_	-	-	-	-		- 1	34	2	1	6676
1-	- 1	- 1	_	- 1	-	_		=	-	-	- 1	-		- 1	83	18	10	6189
-	-	_	_		-	_		-	-	-	-	-		- 1	[ 62	11	7	6683
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7	21	122	28	_	355	11	2	102	46	70	30	257	0	0	8,067	5	7	Ξ
4	8	6	5	- 1	7	8	0	-	-	-	-	-	-		76	6	11	6639

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ı	-	-	-			-	-	-	- 1	-	[ 62 11 7	6663
	-	-	-	-	-	-	-	9	5	18 18 0	109 4 5	6311
	221	122	28	Ξ	355 11 2	10/2	46	70	30	257 0 0	8,067 5 7	Ξ
1000		6	5	_	7 8 9					_	76 6 11	6439
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1	-	_	_	_	_	17	5	8	-	13 13 9	60 16 2	4967
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1		- 1								_	10 0 0	PONE

221	122	28	=	355 11 1	102	46	70	3/0	257 0 0	8,067 5 7	Ξ
8	6	5	_	7 8 (			_	_	_	76 6 11	643
-		-	_		15	-	3	2	9 11 3	40 19 11	690
-		-	-	_	17	5	8	-	13 13 9	60 16 2	606
-	-	-	-	-	-	-	-	-	-	33 15 10	634
	-	-		_	-		- 1	_	-	49 8 8	639
15	10	-	-	6 13 3	-	- 1		-	_	40 17 4	601

8	6	5	_	7 8 0	- 1	_	- 1	-	-	76 6 11	643
-		-	_	_	15	-	3	2	9 11 3	40 19 11	690
		-	-		17	5	8	-	13 13 9	60 16 2	406
-	-	-	-	-	-	-	-	-	_	33 15 10	634
	- 1	-	-	_	-	-	- 1	-	-	49 8 8	639
15	10	-	-	6 13 7	-	-		-	_	40 17 4	601
19	1.7	- 1	-	14 1 5	_	-	-	_	_	98 7 11	622

-	***	-	-	_	15	-	3	2	9 11 3	40	19	11	6908
-	-	-	l –		17	5	3	-	15 13 9	60	16	2	4067
-	-	-	-	-	-	-	-	-	-	33	15	10	6345
-	-	-	-	-	-	-	-	_	-	49	8	8	6395
15	10	-	l	6 13 7	-	-	-	_	_	40	17	4	6016
19	17	-	-	14 1 5	-	- 1	- 1	-	-	98	7	11	6220
1	3	-	-	1 18 8	_	-	-	-	_	180	10	0	6527

	-	-	-	_	-	-	-	-	-	- 6	9	8 8	6303
15	10	-	l	6 13 7	-	-		-	_	4	0 1	7 4	6010
19	17	-	-	14 1 5	-	-	-	-	-	. 9	8	7 11	6220
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19	10	_	_	6 13	7	-	_		_	_	40	17	9.	603
19	17	-	-	14 1	5	-	- 1	-	-	_	98	7	11	621
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1	3	-	-	1 18 8	_	-	- 1	-	_	18	0 1	0 0	6527
										ł			
6	1		-	3 9 5	-	-	-	-	_		5 1	2 8	6258
-	-	-	-	-	21	-	7	3	36 9 8	17	8 .	3 8	6202

## TABLE III.-LIST OF DAY

3,900 8

1		-					_	_						
No. of School	Name of School	N	o. of recogn Gr	Stude med t	nts	Amo	1	N	o. of recogn Gr	Stude ised fr ant	nts ar	Am	oca oc ant	"
		1st Year	2nd Year	3rd Year	1th Year		_	Ist Year	2nd Year	3rd Year	4th Year		-	
	Co. Stago:					2 4	. 6						s	Œ
6899	Sligo: Grammar School, .	11	18	15		125	7 4	11	18	-	-	7	16	1
6141	Sligo : Summerhäll College	35	33	63	7	361 1	11 0	35	22	_	-	17	13	0
6918	Slige : Day Trades Preparatory School	9	10	-	-	5-0	8 8	9	10	-	-	17	11	8
6197	Sligo : Uzsuline Convent	42	25	13	-	171	3 2	42	28		-	39	11	0
	TOTALS FOR CONNAUGHT,	308	239	147	32	1,484	4 1	306	239	- 5	2	203	9	4
	Totals for Leinster, (108 Schools).	2,359	1,785	800	218	8,172 1	12 9	2,359	1,785	147	27	1,508	2	10
	Totals for Munster, (81 Schools).	1,720	1,737	601	185	5,401	2 3	1,719	1,987	109	19	391	7	4
	Totals for Ulster,	1,628	1,138	473	116	6,260	4 3	1,628	1,152	140	36	1.194	9	,

. 6.013 4,383 2,081 551 21,318 3 8 6,012 4,383 401

305 259 147

Totals for Uniter, (78 Schools). Totals for Connaught, (16 Schools).

TOTALS FOR IRELAND

SEC	ONDA	RY S	снос	ıs, &c.–	-001	ıtinue	d.					
	MA	NUAL 1	Natro	THON			D	оминти	Econ	OMT		
	No. of recogn Gra	Studen leed for nt	ts .	Amount of Great		w. I	No. of recogn Gr	Studen ised for ant	ts	Amount of Grant	Amount of Grants	No. of School
16 Yaz	ind Year	3rd Year	4th Your			1st Year	2nd Year	Jed Year	4th Year			
				£ c.	đ,					£ 5. d.	e e. d.	
-	-	-	-	-		-	-	-	-	- 1	133 3 5	6899
15	19	1	-	10 3	5	-	-	-	-	-	380 T 11	6141
9	10	-	-	19 11	6	-	-	-	-	-,	87 11 10	6918
-	- 1	_	-	-		30	19	-	-	23 18 10	234 13 0	6197
100	74	- 6	-	76 14	2	83	15	13	5	83 12 6	1,848 0 1	-
621	220	58	_	458 11	7	163	76	171	81	454 5 11	10,593 13 1	-
663	316	22	12	306 17	1	226	65	119	29	372 6 8	7,074 13 4	-
221	122	28	-	355 11	2	102	46	70	30	257 0 0	8,067 5 7	-
180	74	6	_	76 14	2	83	15	13	5.	83 12 6	1,848 0 1	_
,443	194	314	13	1,197 14	0	573	202	373	145	1,167 5 1	27,583 12 1	-

Table IV.—List of Primary Schools showing the Grants paid by the Department during the Financial Year, 1st April, 1910, —31st March, 1911, in respect of Instruction in Drawing and Manual Work.

No.		School	Grant Paid attends					Grant f	or ? rue	đan tlon	lac	Tota		
of School	Name of School.	Year ending	Average Attend-		me o Gra			No of scholars under instruc- tion.		mou of Gran		for and Inst	Drav Ma	erin;
	LEINSTER.			-		8.	ď.		R	s.	d.	£	8.	d,
6170	Co. Carlow: Carlow: Christian Brothers' Schools.	\$1.1.11	210		1	0	0	_				23		
6260	Carlow : Convent of Mercy,	30.11.10	29	(a)	2	8	4			_		1		
6284 6601	Co. DUBLEN: Artene: Industrial School. Blackrock: Meath Industrial	31,10,10 31,1,11	779 100	1	7 1	18	0	192	55	15 10	7 0	133	13	,
6357	Castleirnesk : Morran's Po.	30.11.10	7		1	5	0		٥	10	я	10		9
6150	dowed School. Kingstown : Christian Bro-	30.11.10	244	(a) 1		š	0			Ξ		15		
6327	thers' School, Monkstown : Carrigies Park Industrial School,	31.12.10	154	1	5	8	0	40	17	2	0		10	0
6366	Co. Bonough or DUBLIN :	31.1.11	311	3		2	0	_ ]				31	2	0
6340	Francis Street. Christian Brothers' Schools,	31.12.10	236		3 1		0	24	4	11	7	31		7
6219	Great Strand Street. Christian Brothers' Schools, Marino.	\$1.12.10	224	2		8	0				1	22	8	,
6156	Christian Brothers' Schools, N. Richmond Street.	31.12.10	359	31		0	0	29		13	7		15	7
6888	Christian Brothers' Schools, St. Laurence O'Toole.	31.13.10	174	11		8	0	26	7	1		2.5	9	3
6339		31.12.10	271	27		2	0	22	6	Ŷ	7	33	9	7
	St. Mary's Piace, Christian Brothers Schools, Synce Street,	31.1.11	393	36		6	0	- 1			1	39	6	ò
	Christian Brothers' Schools, Westland Row.	31.1.11	300	25	1	0	0	-		_		22		ò
\$155 \$115	O'Brien Institution St. Vincent's Orphanage, .	31.10.10 31.1.11	96 58	(6)	1	2	0	-45	15	15		25	13	0
	Co. KILDARE : Atlay : Christian Brothers' Schools.	31.1.11	129	12	11	8	0	- 1		_		13	18	0
340	Athy : St. Mary's School, Convent of Morey.	30.11.10	19	(a) 1	4	5	0			_		- 1	5	0
1201	Schools Christian Brothers'	31.1.11	75	5	11	è	0				- 1		12	6
325	Monasterevan : Christian	31.1.11	91	6	10	)	6	- 1		_			16	6
231	Naas : Christian Brothers' Schools.	31.1.11	- 59	7	8	3	6	-		-		7	s	8
304	Co. KHERNNY: Calien: Christian Brothers' Schools	30.11.10	105	(a) 6	11		3	_ 1					11	3
	Kilkenny: Christian Bro- thers' Schools.	31.1.11	152	11	8	3	0	_		_		11	8	0
1290	Thomastown : St. Michael's Convent.	30.11.10	15	(a) 1	ø		0	-		_		1	5	ò
103	Co. Lours: Drosheda: Christian Bro-	31.10.10	144	14	8			_				14	8	,
239	thers' Schools, Sunday Gate Drocheda: Christian Bro- thers' Schools, Westgate.	31.10.10	94	- 2	8		0			_	- 1	10	8	0

(a) 10 months' grant.

) 20 months' ovant.

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TABLE IV .- LIST OF PRIMARY SCHOOLS .- continued.

			Grant to Paid attends:				Grant f	or N	Ian ion.	20.1			
No. of khool	Name of School.	School Year ending	Average Attend- ance.	Am	our		No of scholars under Instruc- tion.		nou of Irac		for B and 2 Instr	raw	ini
П	CO. MEATH:			a	6.	d.		£	ě.	d.	- 6	s.	d.
6108	Kells : Christian Brothers' Schools.	\$1.10.10	123	12	6	0	-		-		13	6	0
6176	QUEEN'S COUNTY : Maryborough : Christian	30.11.10	182	(a) 11	Y	6	29			9	1.5	17	3
6362	Brothers' Schools. Portarlington: Christian Brothers' Schools,	31.12.10	107	10	14	0	-	ľ	_		10		0
6161	Co. WESTMEATH: Mullinear: Christian Bro- thers' Schools	30,11.10	143	10	14	6	-		_		10	14	6
6104	Co. WEXFORD: Enniscorthy: Christian Bro-	31.1.11	223	16	14	6	_		_		16	14	
6300	there' Schools. Gogey: Christian Brothers'	31.1.11	138	10	7		_		_		10	7	ì
6161	Schools New Ross: Christian Bro-	31.1.11	168	12	12	ò	_ /				12		ì
6168	thera' Schools. Wexford : Christian Brothers	31.1.11	100	10	0	0	_		_		10	0	ì
6341	Schools, George's Street. Wexford: Christian Bro- thers Schools, Joseph St.	31.1-11	194	19	8	0	- 1		_		19	8	è
	TOTALS FOR LEINSTEIN,	_	6,230	569	9	11	459	132	7	0	701	16	11
	MUNSTER.				_	_		-	_	_		-	-
6137	Co. CLARE: Engls: Christian Brothers' Schools.	30.9.10	119	13	8	6	_		_		13	8	
6283	Ennistymon: Christian Erothers' Schools.	30.9.10	85	6	7	6	-		_		- 6	7	4
6295	Kilrush : Christian Brothers' Schools.	30.9.10	98	1	7	0	-		-		1	Ŧ	0
6514	Co. Corg. Bultimore: Fishery School Charleville: Christian Bro-	30,6.10	105	(b) 7	8 9	9 0	_45	15	18	10	23	7 0	3
6355	there' Schools. Clonaldity: St. Aloysius In- dustrial School.	30.9.10	85	8	10	0	_		_		8	10	
6340		31.12.10	64	3	4	0	_		_		3	4	ì
6857	there' Schools. Fermoy : Christian Brothers'	31.1.11	143	10	13	0	_		_		10	13	į
£131	Schools. Midleton: Christian Bro-	31.1.11	179	13	8	6	_		_		13	8	i
<b>6110</b>	thers' Schools. Mitchelstown: Christian Brothers' Schools.	31.1.11	101	5	1	0	-		_		5	1	Ġ
£650	Upton: Danesfort Indus- jriol School.	31.19.10	176	17	13	0	35	14	1	0	31		i
6228	Youghal : Christian Brothers Schools.	31.1.11	176	13	4	0	- 1		-		13	4	(
6352	Co. Bonough or Cork : Christian Brothers' Schools,	31.5.10	173	17	6	0	17	3	2	6	20	8	6
6013	Blarney Street. Christian Brothers' Schools, Our Lady's Mount.	31.5.10	488	48	16	0	105	19	16	0	68	13	0
6354	Christian Brothers' Schools, Sullivan's Quay,	31.5.10	257	25	14	0	30	5	17	2	31	11	9
6834	Sullivan's Quay, Greenmount Industrial School.	31.5.10	143	14	6	0	39	13	0	2	37	6	2
6154	Co. KERRY. Dingle: Christian Brothers'	31.1.11	161	19	1	6	_		_		12	1	6
6179	Schools. Tralee : Christian Brothers'	31.1.11	192	19	6	0	-		_		19	4	0
6349	Schools, Truice: St. Joseph's Indus- trial School.	131.1.11	94		8	0	19		17	9	14	5	9

(a) 10 months' grant. (b) 17 months' g

TABLE IV .- LIST OF PRIMARY SCHOOLS .- continued.

		not and	Grant fo Paid attends					Grant i	or M ructi	on.	nal	Total	0-	nar
No. of iohool	Name of School.	School Year ending	Average Attend- ance.			ioni of nat.		No of scholars under Instruc- tion,			unt it.	for D and I Instr	Mar	vin mu
					£	ě.	d.		£	a.	d.	£	å.	d
6334	Co. Limesick: Doon: Christian Brothers'	30.11.10	52	(a)	4	6	8	-		_		4	6	
6335	Schools, Glin: District Industrial School.	30.11.10	106	(a)	8	16	8	38	15	1	2	23	17	10
6265	Co. Bonovon or Limenick : Christian Brothers' Schools,	30.11.10	186	(a)	15	10	0	-		_		15	10	
6344	St. John's. Christian Brothers' Schools, St. Mary's.	30.11.19	195	(a)	16	5	0	-		_		16	5	4
6363	Christian Brothers' Schools, St. Munchin's,	30.11.10	110	(a)	6	17	6	-		_		- 6	17	
6160		30.11.10	392	(a)	24	10	0	-		_		24	10	0
6336	Sexton Street. Industrial School, Sexton Street.	30.11.10	160	(a)	13	6	8	4.5	16	4	2	29	10	10
6944	Co. Tippenery : Carrick-on-Suir : Christian Brothers' Schools, St. Mary's	31.12.10	. 99		,	18	۰	-		_		9	18	0
6101	Brothers' Schools Mount	31.12.10	94		9	8	0	-		-		9	8	4
6390	St. Nicholas. Carrick-on-Suir : Convent of	31.12.10	20		2	0	0	-		_		2	0	
6361	Mercy. Cashel; Christian Brothers'	31.12.10	60		4	10		-		_		4	10	-
6294	Schools, Cloumel: Christian Brothers'	31.12.10	124		9	6	0	-		_		0	6	-
6184	Schools, St. Mary's. Clonnel: Christian Brothers' Schools, SS. Peter & Paul. Clonnel: St. Joseph's Indus-	31.12.10	175	1	13	2	6	-		_		13	2	-
6984	Clontoel: St. Jeseph's Indus-	30.6.19	131	(6)	3	16	5	48	5	0	2	8	16	1
6229	Nemark : Christian Brothers'	31.12.10	133		10	7	0	-		_		10	7	4
6166	Schools. Thurles : Christian Brothers'	31.12.10	197		14	15	6	_		_		14	15	
6183	Schools, Tipperary : Christian Bro- thers' Schools,	30.11.10	146	(a)	9	2	6	-		-		9	9	
6214	Co. WATERFORD : Dungaryan : Christian Brothers' Schools	31.12.10	154		11	11	0	_				11	11	,
6204	Liamore : Christian Brothers'	31.12.10	90		6	15	0	_		_		- 6	15	-
6291	Schools. Tramore: Christian Bro- thers' Schools.	31.12.10	11		7	2	0	-		-		7	2	
6118	Co.Bonoughor Waterfords Christian Brothers' Schools,	31.12.10	305		22	17	6	29	9	4	۰	25	1	
6293	Mount Sion. Christian Brothers' Schools,	31.12.10	164		12	6	0	_		_		13	6	(
6392	St. John's, Christian Brothers' Schools, St. Patrick's,	31.12.10	80		6	0	0	-		-		6	0	
	TOTALS FOR MUNSTER	-	6,211	- 4	99	9	8	450	115	2	11	614	12	-
	ULSTER.						_			_			_	_
\$873 6398	Co. Bonoven or Bullary: Balmoral Industrial School Christian Brothers' Schools.	30.9.10 30.9.10	330 106		25	15 19	0	. 82	25	7	2	50	19	
6980	St. Malachy's.	30,9,19	143		14	6	ò	_		_		14	6	
6399	St. Mary's, Christian Brothers' Schools.	30,9,10	181		13		6	_					11	
6930	St. Patrick's. Malone Protestant Refor- matory.	30.9.10	78			16	0	67	20	12	10	28	8	
6200	Co. ARVAGH: Armagh: Christian Brothers' Schools	30.9.10	108		10	16	0	_				- 10	16	

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TABLE IV.-LIST OF PRIMARY SCHOOLS,-continued.

No.		School	Grant fo Paid attends				Grant f Enstru	or M ectio	aut n.	iol.	Total	l Gr	nnt
of School	Name of School.	Year ending	Average Attend- ance.		oun of ant	-	No of echolars under Instruc- tion,	Am	ouz of enu	-	for I and Instr	Mar	gair
				8	6.	d.	-	6	a.	d.	£	2.	d.
6963	Co. DONEGAL: Killybegs: St. Columba's Industrial School.	31.5.10	138	13	16	0	48	28	11	4	42	7	4
6171	Co. Down: Newzy: Christian Brothere' Schools.	31.12.10	196	(a) 11	0	6	-		_		11	0	6
0088	Co. Bonovum or Loxdon- nmax; Christian Brothers' Schools, Brow-of-the-Hill.	31.1.11	196	14	14	0	-		-		14	14	0
6116	Co. Monagnan: Monaghan: Christian Bro- thers' Schoole.	30.11.10	111	(6) 9	0	4	-		_		9	0	4
6110	Co. TYRONE: Omach: Christian Brothers' Schools.	39.9.10	12	7	4	0	-		-		7	4	0
	TOTALS FOR ULSTER, .		1,659	134	18	4	197	74	11	4	209	9	8
	CONNAUGHT.												
1553.7	Co. GALWAY: Galway: Salthill Industrial	\$1.10.10	301	20	2	٥	60	12	17	2	99	19	2
6376		30.9.10	149		18	0	39	13		0	28		
6310	Letterfrack: St. Joseph's Industrial School. Tusm: Christian Brothers' Schools.	30.9.10	118		17	0	20	4	0	8		17	8
4332	Co. Mayo: Ballingobe: Christian Bro-	30.9.10	93	6	19	6			_		6	19	6
6218	thers' Schools. Westport: Christian Bro- thers' Schools.	30.9.10	148	10	13	0	-		-		10	13	0
	TOTALS FOR CONNAUGRY	_	703	61	9	- 6	119	31	1	10	9	3 1	1 4
	TOTALS FOR LEINSTER (36 Sc	hools).	6,230	569	9	11	459	132	7	10	701	16	11
	TOTALS FOR MUNSTER (42 Sci	hools).	6,211	499	9	8	450	115	2	11	614	12	1
	TOTALS FOR ULSTER (11 Scho	ods),	1,639	134	18	4	197	74	11	4	209	9	8
	Totals for Connaught (5 8	chools), .	703	61	9	6	119	31	1	10	92	11	4
	TOTALS FOR IRELAND (94 Sch	ools), .	14,803	1,260	. 7	5	1,225	353	3	1	1,618	10	6

(a) 9 months' grant. (b) 13 months' grant,

Table V.—Statement showing the Occupations of Students sitending Schools and Classes conducted under the conditions of Schemes of Technical Instruction in Non-Agricultural Subjects. URBAN SCHEMES.

		Lu	INST	m.	_		_		_	_		
<u> </u>	Dublin.	Rathmines and Kathgar.	Pentroles.	Kingstown.	Droghola.	Wexford.	Blackrock.	Bruy.	Athlone	New Rees.	Enniscorthy.	Totals for Katnetes.
Number of individual students enrolled, Number carefied in:— Preparatory Guzze Gasses, Couster Chasses (Incidenting Lan- guages Chasses), Selector (Prov and Applied) and Mathe- matice Classes, Handiruch Chasses, Art Classes (Incidential Chasses), Art Classes in Lace and Crecket Making.	1,672 208 619 906 28 244 155	7 47 63 408 — 278	561 61 92 233 233 120 20	398 30 75 20 16 235 32	250 45 95 62 63 85	185 48 75 18 19 26 40	919 47 78 98 19 94 94 19	141 28 36 8 14 51 5	219 25 76 8 19 43 15	152 21 23 10 53 53 54	125 28 29 14 51	4,58 1,68 1,68 1,28 1,28 1,28 1,28 1,28
Thread Work, &c. Other Classes,	_	_	_	_	_	_	_	_	-	_	_	
GOCCARDING OF STREET,  GOCCARDING OF STREET,  FORWARD AND AND AND AND AND AND AND AND AND AN	50 6 934 29 70 58 6 350 11 43 35 11 48 38 55 591	-9 -4 -1 	9   600 1 1 4 6 1 7   1 27 4 6 9 6 2 6 6 110	3	1 14 2 7 7 7 18 18 18 18 18 18 18 18 18 18 18 18 18	1   39		12   1   1   2	11 14 1 1 4 9 1 1 25 1 1 1 2 5 3	5 1 2     2 m     0 m       6 m	9 1	Has fin a Millia many is not \$1. Eu-
Soys still in attendance at School or College, No occupation stated, Total Number of Young Men,	26 78 1,331	333	341	71	118	85	62	67	111	33	3 56	2,55
Persons erganed in Firming compations, persons erganed in Firming compations, personals forwards, in Firming compations, personals and the personals are personals and the personal and the personal and the personals are personally as the personal and the personals are personal and the pers	14 32 1 10 25 94 93 10 4 33 25 25 25 25 25 25 25 25 25 25 25 25 25	15 52 17 18 52 17 60 22 28 55 11 145	9 1 5 1 1 1 1 1 2 2 2 3 1 1 1 1 1 1 1 1 1 1 1	59 6 	10 6 10 	4 4 	18 13 13 10 10 30 26 43	27 3 1 1 1 1 1 1 1 1 1 20	1 1 2 1 2 1 3 1 9 4 4 4	10 3 4 17 15 40	13 13 15 15 10 10	100 marin 100 ma
Total Number of Young Women, . Total Number of Students,	541 1,872	424 T47	290 561	597 598	132 250	185	219	161	1,08 219	133	195	4,55

### TABLE V.—continued, URBAN SCHEMES—continued. MUNSTER AND CONNAUGHT.

Munstri	B AN	Co	NAU	GHT.						
	Cork.	Limorfoli.	Waterford.	Cloumet.	Traine.	Queenstown.	Totals for Munster.	Galuny.	Silgo	Totals for Connaught.
Number of individual students excelled, .	1,601	784	445	255	388	94	5,501	259	439	698
Number enrolled in :-	155	89	48 120	18 79	54 108	28	364 787	56 53	51 110	107
Commercial Classes (including Lap- guages Classes), Science (Pure and Applied) and Mathe-	390 400	162	49	45	33	61	748	22	132	161
matics Classes. Hardicraft Classes, Demostic Science Classes, Art Classes, Classes in Lace and Crechet Making, Embreddery, Sprigging, Drawn- Thread Work, Markey	53 339 194 170	231 152 63	38 138 30 29	73 10 63	107 72	99 19	143 888 479 325	48 46 36	148 148 131	90 194 167
Other Classes,	_	=	=	-	_=			ļ=.		Ξ.
COUPATIONS OF STUDENTS.  Young Men.										
Persons engaged in Farming Occupations, Building Trades, including Workers in Word, &c.	110	43	18	15	16	11	13 315	17	21	38
Coach and Car Builders, Engineers, Workers in Metal, Draughtsmen,	97	31	8	10	12	33	26 189	-2	3	5
St. Architects, Surveyors, Civil Engineers, &c., Erectical Engineers, Scientific Instrument Maters, &c. Printing Trades—Compositors, Liftographers	37 54	6	=	1	=	11	43 73	-2	=	- 2
		13	3	-	2	-	45	3 14	9	12
Textile Industries—Designers, Weavers, &c. Fanters, Decorators, &c., Funders, Gasitters, &c., Trades involving Applied Art—Jewellers,	23 23 30	15 6 7	14 8	3	1	4	61 45 45	2	21 2 16	21 4 16
Piumbure, Gastitters, Ro., Trada involving Applied Art—Jewellers, Furniture Malers, Ro., Chemista, Analysts, Draggists, Ro., Stlemann, Shopkeepers, Warehousemen, Ro. Clarks in Compressid Offices, Clarks in Essales, Chvil Service, Law, As- strance, and Accountants' Offices.	30 65 195 33	17 59 14	19 21 10	1 9 8 5	31 37 6	1 10	132 240 83	10 9 3	25 14	8 35 23 2
Are	3.5	32	13	3	13	2	89	6	50	56
Students (University, Law, Medical), .  Occupations not included in the above Classes.		31	10	1 2	5 5	3	93	8 5	1	6
Boys suit left School or College, Boys still in attendance at School or College, No occupation stated,	59 13 62	14 50 9	13 47	13	3	- 3	81 71 124	15 21	16	31 22
Total Number of Young Men,	904	334	197	83	139	79	1,726	120	190	310
Forms Forum.  Persons engaged in Farming Occupations, Demecte Servants, Demecte Servants, Fraining Tradesliners, fees, Fraining Tradesliners, fees, Freetile Industries—Boekrars, Weavers, R.c., Factory Weskers not included in above, Weskers in Lace, Crechet, Enkhrödery, Speigners, Pranus-Thread Work, Re., Pranus-Thread Work, Re.,	12 27 41 — 133	6 8 63	20 5	11 20 71	23 1 3 3 3		19 87 17 17 370	10	16 23 1 3	28 23 16 3
Clerks, Cashurs, Civil Servants, &c., Teachers, Assistant Teachers, Pupil Teachers, Students (University, Medical)	64 54 92 6	10 18 87 2	19 15 32	16 6 3	19 11 43 1	100	198 105 189 7	7 2 13	15 12 63	22 14 76
Occupations not included in above Classes, Grig just left School or College, Gris still in attendance at School or College, No occupation stated,	26 24 18 262	42 32 33 144	12 21 194	15 33	10 35 30 15	5 1 8	96 154 123 516	27 65	29 23	56 88
Total Number of Young Women, .	697	450	248	172	198	15	1,775	129	249	388
Total Number of Students,	1,601	184	445	255	322	94	3,501	259	439	698

						_				
_	Delfast.	Londonderry.	Newry.	Lurgan Ofunicipal Scheme),	Lugan (Convent Scheme).	Ballymens.	Portadown.	Newtownsids.	Armagh.	Coleratios.
Number of individual students carolled,	6,000	506	370	337	105	484	374	260	209	978
Number of individual students carolled, Number carolled in:— Proparatory Gourse Classee, Commercial Classes (including Lan- grages (discool),	1,460	79	75	9.5	26	4.5	24	41	30	30
grasges Classes), Science (Pure and Applied) and Mathe- matics Classes.	916	130	109	66 51	14	160	182	54		93
	579	_	3.9	_	_		00	16	16	44
Domestic Science Chasses, Art Classes, Classes in Laos and Orochet Making,	1,931	198 193	164	126 26	4.5 20	167 59 91	125	134 20	15	107 32
Embrotkers, Springing, Drawn- Thread Work, &c., Other Glasses,	504	_	_	_	_	- 21				_
OCCUPATIONS OF STUDENTS.					_			-	-	
Porsons engaged in Farming Occupations, Indicting Trades, including Workers in Wood, Sc.	244	-6	· 20	-9	=	15	1 5	-	9 7	6 5
Hollding Trades, including Workers in Wood, &c., Cosch and Car Builders, Hngineers, Workers in Metal, Draughtimes,	667	36	14	14		13	10	18	-2	10
Architects, Surveyors, Civil Engineers, &c., Electrical Engineers, Scientific Instrument Makers, &c., Printing Trades—Compositors, Lithographers,	54 79	12 4	1	Ξ	=	2	3	_1	3	6
		-	1	1	_	1	-	8	3	2
Toxtile Industrice—Designees, Weavers, &c. Psinters, Deconston, &c., Plumber, Gestliters, &c., Plumber, Gestliters, &c., Plumber, Gestliters, &c., Plumber, Gestliters, &c., Gestliters, &c., Gestliters, &c., Gestliters, &c., Gestliters, &c., Rahyata, Drumpite, &c., &c., Rahyata, Drumpite, &c., &c., Rahyata, Drumpite, &c., &c., &d., &c., &c., &c., &c., &c., &c., &c., &c	395 56 40 41	7	- 2	1	=	1 1	16 1	2 2 2	4	11/2 1
Ciomista, Analysia, Druggista, &c., Salisanan, Baopkaspara, Waresonusemon, &c., Ourick in Commarcial Offices, Gerks in Bonko, Civil Soyvice, Law, As- surance, and Accountants' Offices, Togothers, Assistant Touchers, Pupil Tonohers,	81 325 554 101	$^{\frac{4}{27}}_{\frac{27}{6}}$	16 17 4	14 22 5	=	28 13 14	8 17 8	9 21 2	2 9 3 12	18 16 6
	122	26	21	2	-	28	31	- 3	7	9
Sindents (University, Law, Medical), Compations not included in the above Chance.	252 252	41	29	7	=	10	17	1.5	1	18
Boys just left School or College, Boys still in attendance at School or College, No cocupation stated,	171	9	4	12 8	5	3	8	11	9	17
Total Number of Young Men, .	3,300	218	151	147	13	159	139	89	78	197
Poung Women, Persons cargage in Farming Occupations, Domestic Servants, Printing Trades,	166	10	11	13		13	11	2 4	10	.6 19
Printing Trades, Dressmikers, Milliners, &c. Textile Industries—Designers, Weavers, &c. Factory Workers not included in above, Workers in Lase, Crochet, Embroidery, Sprigging, Drawn-Thread Work, &c. Satesurome, Blankmann, &c.	146 134 253 30	$\frac{6}{14}$	16 70 1	13 38 1	2 3 40	24 47 1	14 10 11	12 3 61	18 -	10 1 3 1
Salastroman, Shopkorpers, &c., Corks, Cashkers, Civil Servants, &c., Tecchers, Assistant Teachers, Pupil Teachers, Students (University, Medical), Occurations not included in above Classes,	314 363 68	11 33 62	99 31	11 38	2 4 13	15 32 69	14 18 63	15 15	14 5 19 2	18 15 34
Congrations not included in above Glasses, Girls lust left School or College, Girls still in attendance at School or College, No occupation stated,	75 50 1,098	1 18 133	4.5 4.5 5	1 1 21 40	15 10	38 1 84	9 16 79	4 2 45	23 36	8 6 6 24
Total Number of Young Women	2,790	288	219	190	93	325	235	171	131	151
Total Number of Students, .	6,090	506	870	337	106	484	374	200	200	278
	_	_	_	_	_	_		_	_	_

_	Totals for Uniter.	Warrenpoint.	Dromore.	Ballymoney (Jt. Urban and Rural).	Holywood	Carriekfergus.	Banbridge.	Bangoe.	Larue.
Number of individual students corolled Number enrolled in:—	10,709	92	105	317	143	236	305	300	298
Preparatory Course Classes	2,143	26 28	20 48	25 32	13	41	57 58	20 85	24
Science (Pure and Applied) and Ma	1,597	-	-	38	33	41	24	23	82
	3,833 916 91	59	23 40	11 64 47	93	26 75 14	189	9 158 23 38	30 109 34 99
Embroidery, Springing, Dr Thread Work, &c. Other Classes	594	0.00	-	-	_	-	-	_	_
OCCUPATIONS OF STUDENTS.				П					
Buffding Trades, including Workers	57 369	1 8	-4	17	1 6	13	1	-	3 3 <del>0</del>
Coach and Car Builders Environme. Workers in Metal, Draughts	10 823	=	2	4	=	30	- 5	=	15
Architecta, Surveyors, Civil Engineers, a Electrical Engineers, Scientille Instru- Malora, &c.	64 91	=	=	1	=	1 2	-3	_1	3
An.	81	-	1	- 2	-	1	-	2	3
Painters, Decorators, &c. Plumbers, Gastitters, &c.,	531 85 60 54	1	Ξ	1	E	6 7 1	15	11	4
Salesman, Shopkorpers, Warehousemen, Clerks in Commercial Offices	133 540 772 180	1	17 10 2	21 8 4	3 6 13 3	1 1 1	12 9 9	2 4 10 1	17 14 3
Teachers, Assistant Teachers, Pupil Teachers,	377	1	3	6	-	1	7	4	6
Students (University, Law, Medical) Compations not included in the al	434	3	-2	31	2	14	1	-8	-8
Boys just left School or College Boys still in attendance at School or Col No occupation stated,	145 198	1	3	Ξ	1 3	14	- 4	10 3	3
Total Number of Young Men	4,973	19	51	95	33	113	71	63	168
"Foung Women.  Persons engaged in Farming Occupation Domestic Servants Printing Trades	731	5	Ξ	16	13	6 9	-4	9	3 14
Persons engaced in Farming Geoupaton- beausatic Servants  Beausatic Servants  Les Sandards, Sc.  Personalers, Milliaers, Ro.  Personalers, Milliaers, Ro.  Personalers, Milliaers, Ro.  Voctors in Lace, Occobet, Kraibvolt  Voctors in Lace, Occobet, Kraibvolt  Springsing, Possive Thread Work, Ro.  Saleswonnan, Shopkeropers, Ro.  Voctors, Milliaers, Popul Teach  Students (University, Molika)  Cecupations on judicided in above Olssoe	293 293 2397 501 38	Ξ	Ξ.	12	1 1 1 1	10 3	95	1 1 4	14 3
Saleswoman, Shopkeepers, &c. Clerks, Oathlers, Civil Servants, &c., Truchers, Austrant Teachers, Pupil Teach Teachers, Austrant Teachers, Pupil Teach	243 551 852	3 9	3 9	12 9 46	5 5 3	11 16 17	10 3 30	10 12	14 35 22 4
Occupations not included in above Classes Glela just left School or College Gliris etill in attendance at School or Colleg No occupation stated,	78 313 117 359 1,706	47 4 10	33	35	49	12 8 11 29	49 7 30	17 92 83	33
Total Number of Young Women,	5,736	73	54	132	110	123	934	287	190
	10,709	92	105	217	143	236	305	300	298

## TABLE V .- continued.

### COUNTY SCHEMES—PERMANENT CENTRES OF INSTRUCTION. LEINSTER.

### A 1   1   1   1   1   1   1   1   1   1	COUNTY COMMAN	1	BIN	STER							_	_	_	
### A 1   1   1   1   1   1   1   1   1   1	-	Carlow.	Dublin.	Klidare.	Efficient.		Longford.	Leuth.	Mosth.	Queen's Co.	Westmenth.	Wexford.	Wieklow.	Totals for Leinsler.
Trees Also  Trees	uniter eurobied in — Perparatory Course Clasors, Conquest Clasors, Clasors, Calendario, Conquestion Co	64 20 80	=	14 38 7 18 87	49 23 9 34 104	77 98 53 56 88	=	81 77 51 9	16 83 14 14 66 75	28 36 7 22 48	18 26 11 22 12 12 18	=	48 94 94 14 69 95	371 365 246 160 683 110
1	Young Men. croops engaged in Farming Occupations, utilding Trades, including Workers in	26	=	4				1	3 6			=		89
Section   Continue	RO. reluteets, Surveyors, Civil Engineers, &c ireluteets Engineers, Scientific Instrument Makers, RO. rutting Traders—Compositors, Lithographers,	=	Ξ		3	3	-	1			_1 _			
**************************************	tumbers, Securates, &C., tumbers, Gautiters, &C., reades involving Applied Art.—Jeweilers, Furniture Makers, &C., trenists, Analysis, Druggists, &C., sketmen, Konykaspers, Watchesseurte, &C.	Ξ	=	1 6	33	Œ	Ξ	5 18 16	1010	-	96	Ξ	5 1	15
Warman   March School of College   10   10   10   10   10   10   10   1	surance, and Accountants' Offices, conducts, Assistant Teachers, Pupil Teachers,	E		1	18	E	-	18	1	5	_	_	2	10
The Continue of Years 2016   18   18   18   18   18   18   18	Classes. Joyn part left School or College, leave suffit in attendance at School or College.	40 16	=		1 14		_	5	9			Ξ	31	103
Transp. Transp		-			86	115	-				69		87	827
Gurde, Candreck, Chrif Servanii, A. (1997). The control of the con	Found Women. Persons engaged in Farming Compations, Demosits Sevents, Punting Trades,		Ξ	20	5		Ē	3	5	84	Ε	Ξ	3	128 28 21 53 161
Total regular of roung women, 125 so 135 tot 115 so 170 to	Glerks, Cashdees, Olvil Servanis, de., Tosobers, Assistant Tenobers, Pupil Tenchers Structura (University, Medical), Occupations not included in above Classes, Glers fusi left School or College, Glers still in attendance at School or College,	9.0		6 5 4 34	15 31 59	40		56 1 18 19 34 15	3	10 12 15 1	4 3		1 1 44 44	114 114 210 210 176
Total Number of Students											-	-		
	Total Number of Students .	1200	28	176	262	284	38	326	204	1,53	1400	1	100	1,,,,,

Table V.-continued.

COUNTY SCHEMES—PREMANENT CENTRES OF INSTRUCTION—continued.

. Д	funs	YER.							_
	Clare.	Cork.	Кету.	Limerick.	Physical (N. Riding)	Tipperary (S. Riding)	Thyerary (Jt. Urban and Rural).	Waterford.	Totals for Munitur.
fumber of individual students enrolled, .	193	1,375	431	94	243	144	190	107	2,777
Comber carolled in :- Preparatory Course Classes, Commercial Classes (including Lan-	77	10 482	=		51		39 59	11	11 61
grages Cinsees), Science (Pore and Applied) and Mathe-	-	347	-1	_	51	44	6	_	341
matics Glasses, Handisrati Glasses, Domestic Science Glasses, Art Classes, Chasses in Luce and Crochet Making, Embroidery, Syrkering, Thread Work, &c.	116	452 76 200 51	83 358 51 42	18 76	18 103	46 58 26 40	59	37 4 36 19	660 61 32 33
Other Classes,	-		-	-	-	-	_	_	_
Found Men		96	_		25	_	_	9160	123
Persons engaged in Farming Georgeations, building Trades, including Workers in Wood, &co.	Т	189	27	Ξ	11	4		- 8	17
couch and Car Builders, ingineers, Workers in Metal, Draughtsmen,	=	80	-	-	_	î	-	-	
rchitscts, Surveyors, Civil Engineers, &c Sectrical Engineers, Scientific Instrument Makers, &c inting Trades — Compositors, Lithographers,	Ξ	4	Ξ	Ξ	=	=	=	=	
	_	2							1 _
Fextile Industries—Designers, Weavers, &c. Painters, Decorators, &c., Plumbers, Gasifiters, &c., Prades involving Applied Art—Jewellers,	Ξ	18 3 5	3	Ξ	1 1	3	Ξ	=	1
Furniture Makers, &c.  "hemists, Analysts, Druppists, &c., Sciences, Stopherepers, Warehousemen, &c. Carks in Commercial Offices, Circle in Earlis, Civil Service, Law, As- surance, and Accountants' Offices.	10 17	93 28 18	9	Ξ	12 2 3	1 3 5	12	4 1 1	13 6 2
Teachers, Assistant Teachers, Papil Teachers,	2	49	14		20	3	3	5	9
Students (University, Law, Medicul),	-6	11 41	25	=	26	-6	20	11	13
Boys just left School or College, Boys still in attendance at School or College, No occupation stated,	6	395 19	79 14	Ξ	13	15	99 13	5 8 —	53 4
Total Number of Young Men, .	43	916	176		123	46	78	49	1,49
Persons energed in Farming Occupations, Domestic Servants, Printing Trades, Deventages, Milliners, &c.	32 12 3	-1 -6	20 5	13 1 38	Ē	Ξ	1	-1 -5	5
Dresmakers, Milliners, &c. Textile Industries—Designers, Weavers, &c., Fuetery Westers not included in above, Westers in Lace, Croches, Embroidery, Springing, Drawn-Thread Work, &c., Saleswomen, Shopkespers, &c., Caster, October, Cert Saymont, &c.	3	51 25	48 38	1 3	103	=	=	=	19
Teachers, Assistant Teachers, Pupil Teachers, Students (University, Medical),	18 6 20 16	62 62 63 14	-8	38	18	Ē	-6 11	14	11
Girls just left School or College, Girls still in attendance at School or College, . No occupation stated,	14 36	184	51 75	Ξ	Ξ	18 86	31 55	15 16	36
Total Number of Young Women, .	150	399	255	94	131	98	113	58	1,28
Total Number of Students,	193	1,375	431	91	243	144	190	107	2,77

#### TABLE V .- continued

SOUNTY SCHEMES-PERMANENT ULS	e Cr	NTI	tzts	OF	Ins	PRUC	Tion	so	ontin	ned.
		_			_	_	_	_		_
	Antries.	Armagh.	Cavan.	Donegal	Down.	Fermanagh.	Londonderry.	Monsghan.	Tyrone.	Totals for Ulster.
Number of individual students envolled.	198	_	942	538	_	460	451	282	126	2,897
Number of individual students enrolled, Number enrolled in:  Preparatory Course Classes, Commercial Classes (Including Languages Classes),		=	=	=	=	28 51	68 74	149	75 167	248 570
Science (Pure and Applied) and Mathe- matics Classes.		-	-	-	-	9	50	8	36	316
Charge to Lace and Cambrid Making	218 9	Ξ	242	538	Ξ	66 21 343	110 58 111	125	155	137 549 132 1,359
Emhroidery, Sprigging, Drawn- Thread Work, &c. Other Classes.	L	_	_	_	_	_	_	_	_	_
OCCUPATIONS OF STUDENTS.	-	_	-	-	-	-	-	-		-
Foung Men. Persons engaged in Farming Occupations, Building Trades, including Workers in	31 20	=	Ξ	=	=	1 3	5T	5 6	23 11	117 44
Wood, &c. Coach and Car Builders, Engineers, Workers in Metal, Draughtsmen,	28	=	Ξ	Ξ	=	3	-	- 9	1 5	39 39
Architects, Surveyors, Civil Engineers, &c	1	=	Ξ	Ξ	=	1	1	=	1	3 3
Makers, &c.  Printing Trades—Compositors, Lithographers, &c.  Printing Industries—Designers, Weavers, &c.	1	-	-	-	-	1	1	-	- 6	9
Tec. Tec. Tec. Tec. Tec. Tec. Tec. Tec.	37	Ξ	Ξ	Ξ	Ξ	1 3	2 1 1	Ε	- 6 - 2	43 23 6 - 1
Chemistra, Analysts, Druggists, &c., Salesmen, Shopkeepers, Warchousemen, &c., Gerks in Coamorcal Offices, Clerks in Banks, Civil Service, Law, As- surance, and Accountants' Offices, Toochers, Assistant Touchers, Fupil Teachers,		Ξ	Ξ	Ξ	Ξ	26 2 4	28 1 6	13 7 6	37 20 18	183 58 38
	3	-	-	-	-	-	- 4	1	. 8	16
Students (University, Law, Medical), Occupations not included in the shove Classes.	18	=	Ξ	=	=	=	9	15	_1	42 42
Boys just left School or College, Boys still in attendance at School or College, No occupation stated,	9 5 6	Ξ	Ξ	Ξ	Ξ	1 2	3 24 14	14 7	25 5	40 49 29
Total Number of Young Men, .	326	-	=	-	Ξ	48	160	77	173	684
Persons encaged in Farming Occupations, Domestic Servants, Printing Trades, Decembers, Milliners, Roce, Persile Induction—Designated in salvers, Persile Induction—Designated in salvers, Workers in Lace, Cocchet, Embrodiery, Spirighte, Dewn-Throad Work, Roc., Salarmonnen, Shopkeepers, Rc., Clerks, Gudbies, Urtil Servanjs, Rc.,	95 99 4 19 4	E	942	=	=	17 — 343	81 11 13 18	80 2 3	29 40 1 1 7	215 90 5 39 4 11 1,024
Springsing, Drawn Throad Work, &c., Salesmann, Sonoheopers, &c., Clercz, Cashiere, Civil Servanis, &c., Tracher, Aspiciant Peachers, Pupil Troschers, Indenis (University, Medical), Grit Intel Let School or College, ve Classes, Grit still in Attendance at School or College, No occupation stated,	10 11 16 1 11 15 2 135			120		16 16 17 13	4 3 30 1 41 62 98	31 16 1 26 7 19 20	41 21 23 47 23 9	87 54 86 142 47 213 194
Total Number of Young Women.	272	Ε	243	538	=	412	291	205	253	2,213
Total Number of Sindents,	198	Ξ	848	538	=	460	451	882	126	2,897
	_	_		_	-			_		

TABLE V .- continued.

COUNTY SCHEMES-PERMANENT CENTRES OF INSTRUCTION-continued,

	ONNAT	GHT.				
	Galuay.	Leitrim.	Mayo.	Rososumon.	Sligo.	Totals for Connaught.
Number of individual students enrolled, Number enrolled in :—	. 317	62	495	53		827
Commercial Classes (including Lan	18 32	-	161	=	=	18
Science (Pure and Applied) and Mathe	- 11	-	-	-	-	21
Demestic Science Chases, Art Classes,	59	Ξ	200	1 =	1 =	133 256
Classes in Lace and Crochet Making Embrodery, Springing, Drawn Thread Work, &c. Other Classes.	41	62	194	53	[ =	350
OCCUPATIONS OF STUDENTS.	-					
Focus Mea.  Focus Mea.  Focus Mea.  Buffding Trades, Including Workers in Wood, &c., Cash and Car Buffders.  Engineers, Workers in Metal, Dranghtamen, &c., &c., &c., &c., &c., &c., &c., &c.	12	=	14 5	=	=	20 17
Engineera, Workers in Metal, Dranghtamen,	-	=	=	=	=	3
Architects, Surveyors, Civil Engineers, &c. Electrical Engineers, Scientific Instrument Makers, &c. Princing Trades—Compositors, Lithographers	=	=	=	=	=	=
		-	-	-	-	2
Painters, Decorators, &c., Plumbers, Gasfitters, &c., Trades involving Applied Art-Jewellers,	2 2	ΙĒ	1	E	ΙΞ	1 2
Certain Industries—Designers, Weavers, &c. Ferrica Industries—Designers, &c. Ferrica Industries, &c. F	11 5 1	Ξ	34 4 1	Ξ	Ξ	45 9 1
Templers, Assistant Templers, Pupil Templers, Stadents (University, Law, Medical), Occupations not included in the above Glasses.	9	=	1	Ξ	ΙΞ.	10
Boys just left School or College, Boys still in attendance at School or College, No occupation stated,	Ξ	Ξ	43	ΙΞ	Ξ	43 32
Total Number of Young Men, .	58	_	135		-	193
Possins enter Turng Women.  Turng Women.  Parming Occupations, Donosité Servine Parming Occupations, Donosité Servine Parming Control Particular Trades, Printing Trades, Donosité Printing Trades, Donosité Printing Trades, Donosité (University, Medica), Donosité (University, Medica), Printing Agrécia (University, Medica), Printing Trades, Printing T	16 5	36	14 9 — — — —	=	=	49 95 5 
Saleswomen, Shopkeepers, &c., Clerks, Cashlers, Civil Servants, &c., Trachers, Assistant Trachers, Pupil Teachers, Students (University, Medical),	5 6 4	Ξ	8 6 9	Ξ	Ξ	11 12 6
No occupation stated,	10 115	27	36	53	Ē	90 73 168
Total Number of Young Women, .	159	62	360	53		634
Total Number of Students,	217	62	495	53	-	827

# Table V.—continued, COUNTY SCHEMES—ITINEBANY INSTRUCTION.

		LEIS	STE	в.									
Occupations of Students.	Cardow.	Dabilo.	Elidaro.	Kilkenay.	King's Co.	Longford.	Louts.	Meath.	Queen's Co.	Westmosth	Westerl.	Wicklaw.	Totals for Lemeter.
Young Men.													
Persons contend in Farming Occupations, Building Trades, including Workers in Wood, &c.	54 18	=	46 2	81 5	108	16 5	34	64 11	31 4	40 8	77	13 19	594 86
Coach and Cur Builders, Englacers, Workers in Motal, Draughts men, &c.	=	=	3	3	1	=	1	1	ĩ	1	2		11
Architects, Surveyors, Civil Engineers, &c., Electronal Engineers, Scientific Instrument Malore, &c.	=	E	=	=	Ξ	1	Ξ	-		=			-2
Printing Trades—Compositors, Lithographers, &c. Textile Industries—Designers, Weavers, &c., Painters, Boscentors, &c., Plumbers, Gastitlers, &c., Trades involving Applied Art—Jessilers,	Ē	E	=	2	=	- 9	Ξ	84		=	1	Ξ	32.66
Furniture Makers, &c. Chemists, Analysts, Drugetists, &c. Salesmen, Shopkeepers, Warehousemen, &c., Chriks in Coumercial Offices, Clerks in Banks, Civil Service Law As.	9	Ξ	1 6 2	3	9 3	7 43	Ē	10 2 3	13	=	Ξ	1 1	56 16 3
surance, and Accountants Offices. Teachers, Assistant Teachers, Pupil Teachers, Students (University, Law, Medical), Occupations and included in above Glasses, Boys just left School or College, Boys still in attendance at School or College, No accupation stated,	3 37 8		1 2 22 32 3	3 11 104 1	13 21 86	6	3 12	13 15 67 4	3 15 25 1	3 44	8 97	94 599	101 101 513 22
Total Number of Young Men,	129	-	89	291	256	133	55	197	101	101	117	94	1,492
Foung Women.				Г									
Peasons encoured in Farming Gocupations, Domestic Servants, Printing Trades, Descriptors, Millinors, &c., Tartile Industries—Designers, Weavers, &c., Factory Workers not included in above, Western in Laco, Cecchel, Embyedderr,	198 134 48	151 25 96 92	33 17 1	99 43 3	10 17	37 2	12	111 15 13 13 34	18		166 21 3	18	287 287 25 25 25 25
Springting, Draws Thrond in Above, Springting, Draws Thrond Work, Action, Springting, Draws Thrond Work, Action, Stleenwould, Shojikespera, &c., Saleswoon, Shojikespera, &c., Saleswoon, Troubbers, Assistant Twenters, Fund Teachers, Swindonts (Ulusversky, Medical), Occupations not inclined in above Classess, Occupations not inclined in above Classes, Clink still it, aftendance at School or Odloge, No occupations atatof.	13 13 13 53	13 5 35 28 9	13 13 13 16	10 107 107 61 19	13 4 13		5 41 2 15	22 10 19 37 67 10	13 27 23 25		7 6 11 59 21	9 9 2 14 91 53	97 33 92 331 331 62 291 123
Total Number of Young Women,	458	377	98	383	100	81	80	330	119	-	29.5	136	2,436
Total Number of Studenta, .	587	377	187	584	356	213	135	527	329	101	611	210	3,921

## Table V.—continued.

## COUNTY SCHEMES—ITEMERANT INSTRUCTION.—continued. MUNRISH.

Occupations of Students.	Clare.	Oork.	Kerry.	Limeriek.	Tipperary (N.R.)	Tipperary (8.R.)	Tipperary (3t, Urbon and Rurel.)	Waterford.	Totals for Mussfer.
Found Men.  Persons engaged in Farming Occupations, Building Trades, including Workers in Wood,	36	47	60	=	20	4 3	93	70 16	3 59 46
Sc. Coach and Car Builders, Engineers, Workers in Metal, Draughts-		-6		=	=	=	=	- 6	10
men, &c. Architectes, Surveyors, Civil Engineers, &c. Electrical Engineers, Scientific Instrument		=	=	=	=	=	Ξ	=	=
Makers, &c. Printing Trades—Compositors, Litbographers, &c.	-	-	-	-	-	-		-	- 9
Taxtile Industries—Designers, Weavers, &c., Painters, Decorators, &c., Plumbers, Gushitters, &c.,	1	8	Ξ	Ξ	Ξ	Ξ	Ξ	2	2
	-	Ξ			Ξ	Ξ	Ξ	=	_
Furniture Makers, &c. Chemists, Analysis, Drugststs, &c. Salesmen, Shopkneners, Warehousemen, &c., Clerks in Counsercial Offices, Clerks in Banks, Civil Service, Law, As-	5	5	12	Ξ	Ξ	-1	2	1	38 8 3
gurance, and Accountants' Offices, Teachers, Assistant Teachers, Pupil Teachers, Students (University, Law, Medical),	2	10	4	-	1	_1	=	6 2	24
Occupations not included in above Chasses, Boys just left School or College, Boys still in attendance at School or College, No occupation stated,	43	16 14 124	13 108 65	Ξ	9	11	=	114 114	69 21 469 71
Total Number of Young Men, .	98	251	273	-	30	22	31	254	829
Foung Women.			_						
Persons engaged in Farming Occupations, Domestic Servants, Printing Trades.	145 26	378 43	454 59	265 20	174 20	278 65	27	33 23	1,754 256 4
	3	3	7 2	5	Ξ	16	Ξ	Ξ	33 -19
Dresimaters, Milmers, &c., Textile Industries—Designers, Weavers, &c., Factory Workers not included in above, Workers in Lace, Croebet, Embrodery, Springing, Drawn-Thread Work, &c.		36	-	1	-	37	-	11	3T 263
Saleswomen, Shopkeepers, &c., Ciecks, Cashiers, Civil Servants, &c., Trachers, Assistant Teachers, Pupil Teachers,	16 1 24	85 3 26	56 5 26	24	11	37	- 5	=	137
Students (University, Medical), Occupations not included in above Classes,	75	91	74	98 52	16	13	2 28	57	287 94
Girls still in attendance at School or College, No occupation stated	81 19	31 35	113	176	8	95	32	13	327
Total Number of Young Women,	395	808	892	673	238	535	93	138	3,771
Total Number of Students,	493	1,059	1,165	673	268	367	124	293	4,7 50

#### TABLE V .- continued. COUNTY SCHEMES-ITINERANT INSTRUCTION-continued. Ulstre.

Occupation of Students.	Anteim.	Armagh.	Cavan.	Donegal	Down	Pormanagh.	Londonderry.	Monaghan.	Tyrone.	Totale for Ulster.
Young Mes.							T		Г	П
Persons engaged in Farming Occupations, Building Trades, including Workers in Wood, &c.	16	67	157	32 10	78	64	18	192	15	684
Coach and Car Builders, Engineers, Workers in Metal, Droughts- men, &c.	3	Ξ		1=	=	3 4	=	1	-	13
Electrical Engineers Scientific Instrument	=	=	=	=	=	=	=	=	=	=
Makors, &c. Printing Trades—Compositors, Lithographers, &c.	-	-	-	-	-	-	-	-	-	-
Textile Industries—Designers, Weavers, &c., Painters, Decorators, &c., Piumbers, Gastiters, &c., Trades Involving Applied Art—Jewellers, Descriptor, Manual Applied Art—Jewellers,	Ξ	Ξ	Ξ	Ξ	=	11	Ξ	Ε	-	111
Furniture Makers, &c. Chemists, Analysts, Dramists, &c. Salesmen, Shopkeepers, Warehonsemen, &c., Clerks in Commercial Offices, Clerks in Banks, Griff Service, Law, Au-	1	1	1	11	1	3 2	1	2	10	38
Clerks in Banks, Criff Service, Law, Austrance, and Accordants Clices, Feebres, Assistant Teachers, Propil Teachers, Students (University, Law, Medical), Occupations not included in above Classes, Boys less left School or College, Boys less left School or College, No occupation states,	1-101-	1 1 2 45	8 35 59 3	2 62	75.6	5 16 85 1	1 6 32 3	3 4 10 59	3 1 10	21 41 47 406 10
Total Number of Young Men,	1	119	371	121	183	173	63	372	T	1,266
Young Women.	_		-	-		-			-	
Persons engaged in Furming Occupations, Domestic Servants, Printing Trades Drasgnakers, Milliners, &c., Textile Industries—Designers Weavers, &c. Factory Warkers not included in above, Warkers in Laos, Crochet, Embreddery, Springing, Draum-Thraud Work, &c.	20 13 2 1	1-9353-11	15T	40 18 4 23 95	218 37 16 36	295 20 —	112 15 9	100 3 3 - 6	33 13 1 1 1	1,052 149 52 95 23 105
Selection Cashlers, Civil Servants, &c., Clerks, Cashlers, Civil Servants, &c., Trackers Assistant Teachers Furth Teachers	21 4 20	4 75 9	11 7	36 22	50 28	=	112	11 4 6	10 1 15	164 18 181
Students (University, Medical), Occupations not included in above Classes, Girls just left Scinol or College, Girls still im attendance at School or College, No occupation stated,	62 16 7 21	5 56 192	8 27 20	34 37 62	34 90 44	16	8	17 3 19 19	16 2 14	211 50 181 283
Total Number of Young Women, .	230	221	237	382	583	312	995	189	106	2,485
Total Number of Students, .	312	340	508	503	616	506	298	191	158	3,751

# TABLE V.—continued COUNTY SCHEMES—ITEMERANT INSTRUCTION—continued, CONNAUGHT,

-						
OCCUPATIONS OF STUDENTS.	Galway.	Lettelm.	Маую.	Rescommon.	Shro	Totals for Connenght,
Foung Men.						
Persons engaged in Farming Occupations, Bubling Trades, including Workers in Wood	92	157	101	118	125	598
Cooch and Car Builders, Exturers, Workers in Metal, Dyanghia,	=	=	=	=	=	=
Architecta, Surveyors, Civil Engineers, &c	=	=	=	=	=	=
Printing Trades-Compositors, Lithographers		-	-	-	-	-
Printers, Despretors, &c.,	=	-	_	_	-	-
Printers, Decorators, &c., Sumbers, Gashitters, &c., Probers, Gashitters, &c., Probes involving Applied Art—Jewellers,	Ξ	=	=	=	Ξ	=
Furifitire Makers, &c. Furifitire Makers, &c. Chemists, Analysis, Druggists, &c. Saksmen, Shopkeepers, Warehousemen, &c., Gestain Commercial Offices,				_		_
Saksmen, Shopkeepers, Warehousemen, &c., Clerks in Commercial Offices.	-4	Ξ	3	=	Ē	7
Gerks in Banks, Civil Service, Law, Assurance, and Accountants' Offices, Teachers, Assistant Teachers, Pupil Teachers,	I -	-	-	-	-	- 1
Students (University, Law, Medical), Occupations pet included in above Classes,	8	=	3	3 <sup>1</sup> / <sub>5</sub>	=	12 37 19
	9 5	=	=	- 5	- 1	
Bays still in attendance at School or College, No occupation stated,	65 35	=	33 3	=	-6	104
Total Number of Young Men,	222	157	144	163	138	824
Foung Women.		-				
Persons canaged in Farming Occupations, Denestic Servants,	679	67	186	156	144	1,232
Dresmolory Milliones fro	13	=	-4-3	11	- 5	33
rexule industries Designers, Weavers, &c.,	-	Ξ	-2	-¥	É	12
Stefaring Date, Crocket, Kinhrosdery	-	=	7	=	=	7
	16	10	8	- 8	-	72
Stoicuts (University, Medical)	5.5	=.	8	18	=	80
Sits just left School on College	14	=	20	27	12	61 17
Onle still in attendance at School or College, No occupation stated,	105 30	=	23	133 14	14	266 44
Total Number of Young Women, .	958	77	258	370	165	1,828
Total Number of Students,	1,180	234	402	533	303	3,659

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#### TABLE V .- continued.

#### SUMMARY.

		Una	AN SCHUMES		
OCCUPATIONS OF STUDENTS.	Lettastor.	Muzater.	Ulatez.	Conneught.	Totale,
Young Men.					
ersons enquyed in Farming Occupations, . ujiding Trades, including Workers in Wood,	26 149	13 313	57 369	38	98 169
&c. oach and Car Builders, ingineers, Workers in Metal, Draughts-	349	28 189	10 823	5 5	1,366
men, &c., rehitects, Surveyors, Civil Engineers, &c.,	34 90	42 72	64 91	- 2	136 356
rinting Trades—Compositors, Lithographers, 80,	67	4.5	81	12	200
extile Industries—Designees, Weavers, &c.,	35 44 41 20	17 41 45 45	521 85 60 54	14 21 4 16	588 191 156 186
fumbers, Gasütters, &c., reades involving Applied Arc—Jewellers, Furniture Makers, &c., hamnish, Analysis, Druggists, &c., alcamen, &c., shownish, Analysis, Druggists, &c., alcamen, &c., steries in Commercial Offices, the Archael Commercial Offices, the Ranke, Civil Service, in Asserted	47 174 435 300	133 310 83	123 549 719 130	8 35 93 2	1,476 465
tieres in Commercial Offices, the As- terior in Empire, CWI 1985. Law, As- leachers, Assistant Teschers, Punit Teachers, tradeasts (University, Law, Medical), becompations not included in above Classes, lony just left School or College, Goys will in attendance at School or College, to compaction feated,	68 69 418 76 110 156	89 92 81 71 124	277 49 434 41 145 198	-81 22	- 586 - 146 966 198 357 500
(Total Young Men),	2,598	1,726	4,973	310	9,601
Young Women.					
Persons engaged in Farming Occupations, Domestic Servants, Printing Trades, Milliners, &c., Pressurators, Milliners, &c., Pectory Workers not included in above, Nactory Workers not included in above, Workers in Lace, Crocket, Embrodiery,	27 186 76 31 42	19 81 177 	34 314 12 293 327 601 38	26 -23 16 3	61: 22: 46: 37: 54: 31:
Feccial industries—Designate, Wedwers, So., Sectory Workers and Industries, So., Sectory Workers and Industries, So., Sectory Workers and Industries, Septiagon, Drawb Thread Work, So., Salarsonnon, Shopkeppres, Soc., Carles, Cathlees, Uril Servants, So., Carles, Cathlees, Co., Carles, Cathlees, Co., Carles, Cathlees, Co., C	115 258 243 13 30 151 187 831	126 189 7 96 154 123 516	249 561 852 78 312 117 359 1,706	93 14 76 	507 925 1,350 557 557 527 722 3,14
Totals (Young Women),	2,251	-1,715	5,136	358	10,15
Totale (Young Men and Young Women).	4.849	3,501	10.702	693	19.75

## TABLE V .- continued.

## SUMMARY.

		dencii	err Sc int In		L,	1	tres of	s Some	THISTIC	
OCCUPATIONS OF STUDENTS.	Totals-	Community	Ulater.	Munster.	Leinster.	Totals.	Connanght	Ulater.	Muniter.	Selantor.
Foung Men.										
Persons engaged in Farming Occupations, Building Trades, including Workers in Woo &c.	2,080 161	593 0	634 30	259 46	594 86	293 329	20 17	117	193 179	33 89
Couch and Car Builders. Engineers, Workers in Metal, Draugh men, &c.	36 36	=	15 15	10	3 11	26 115	2	3 39	11 31	11 53
Architects, Surveyors, Civil Engineers. &c., Riccircal Engineers, Scientific Instrume Makers, &c.	2	=	=	Ξ	3	15 11	=	3	1 4	11 4
Printing Trades-Compositors, Lithographs	-	-	-	-	-	22	2	9	3	5
Textile Industries- Designers, Weavers, & Painters, Decarators, &c.	92 6 19	Ξ	10 11	2	40,000,00	57 33 23 19	2 1 3	48 3 6	17 7 9	14 21 9
Trades involving Applied Art—Jenelle Furniture Makers, &c. Chemista, Anolysis, Druggists, &c. Salesmen, Shopkeepers, Warehousemen, & Cicika in Commercial Offices. Cicika in Banks, Civil Service, Law, &	124 30 12	7	28	33 8 3	56 15 3	16 402 231 93	45 9	133 58 38	6 137 66 23	e 15 25 25
recrated, and Accommunication; recrated, and Accommunication; recrated, and Accommunication flugit function of the control of	103 42 216 96 1,432 147	12 37 13 12 104 35	31 41 47 405 16	94 2 62 31 409 71	46 3 101 16 613 22	164 22 255 143 737 198	$\frac{10}{\frac{63}{32}}$	16 5 42 40 49 29	95 11 135 48 536 49	65 55 55 69 33
Totals (Young Men).	4,541	824	1,266	959	1,492	3,194	193	684	1,690	927
Young Women.					-					-
Persons engaged in Farming Occupations, Domestic Servants, Frinting Trades, Dressmakers, Milmers, &c., Breston Industries—Designers, Weavers, & Factory Workers not included in showe, Workers in Lace, Crocket Embroider	4,922 718 6 168 191 35 205	1,939 33 12 17	1,059 143 52 96 23 100	1,756 256 35 33 12 37	584 257 71 96 56	365 974 10 139 36 65 1,579	25 25 5 195	915 90 5 39 4 11 1,024	53 38 	48 123 5 5 5 91 63 161
Workers in Lace, Crochet, Embroider Spragging, Draws Thread Work, &c. Saleswomen, Shopkoepers, &c., Clerks, Cashiers, Civil Servants, &c., Teachers, Assistant Teachers, Pupil Teacher Students (University, Medical). Germanica not included in above Chasses.	57.6 67 430 13	72 4 80	144 18 181	363 13 137 10	97 33 92 2	251 97 363	11 12 6	87 54 36 2	87 113	66 25 93 5
Occupations not included in above Classes, Girls just left School or College, Girls still in attendance at School, or Colle No occupation states.	391 1,291 784	61 17 206 44	311 50 181 288	287 94 545 327	\$32 62 299 125	433 116 803 840	90 73 168	142 47 813 194	\$6 40 307 304	29 210 176
Totals (Young Women),	10,530	1,828	3,485	3,771	2,436	5,897	634	1,213	1,237	,163
Totals (Young Men and Young Women).	15,061	2,652	3,751	4,730	3,928	8,491	827	2,807	8,717	,910

#### TABLE VI.

#### LOCAL SCIENCE AND ART EXAMINATIONS (IRELAND), 1911.

1911.

List of Examination Centres, showing the subjects in which
examinations were held at each Centre.

(KOTN.—A.D.—A. decktotent of Design 1. A.M.—Drousley the Musican From Memory,
Andre Andrewy, Newho-Architecture (C.O.—Promisy of Osmory
Objects from Memory 1. D.—Drasign 1. D.A.—Drawing the Antiques 1. E.—
Proband Tomaging in Outliers, C.D.—Geometricol Tomasque (A.)
—Editoric Cornances 1. L.—Drawing in Light and Stake from a Cost,
Andrews Cornances 1. L.—Drawing in Light and Stake from a Cost,
Medicing Design 1. M.—Handelling the Hand from Life 1.
Mac. Medicing Design 1. M.—Handelling in Prom. Life 1.
Medicing Design 1. M.—Handelling in Community 1. Exp. Community of
Frank From 2. Draw (D.—Principa of Oromany 1. Exp. Community of
signated by the numbers pinn them in "Syldehastes and Lists of Apparatus"
of the Board of Editoration 1.

Centre		Subjects in which Ex	aminations were held.
Number	Name of Centre.	Belence.	Art.
	LEINSTER.		
0247	Co. Carlow: Borenalstown: Presentation Con-	Subject XIV.	GD., S.L., F., and M.
6260 6256 6107	vent. Garlow: Convent of Mercy, Tullow: Brigidine Convent, Tullow: St. Putrick's Seminary,	Ξ	GD., F., L., and M. GD., F., L., M., and I
0511 0209	Co. DUBLIN: Ballsbridge: Technical School, Blackrook: Dominican Convent, Sica Hill.		F. GD., F., L., and M.
0202	Chapelized : Mount Sackville Con-	Subjects XIV. and	
6041	Bathfarnham: Loreto Abber, Hingsond: Petabroke Technical School.		F., and M.
6143	Co. Honowan of Dunkin : Dublin : Christian Brothers'	_	GD., F., L., M., and
6010	Novitiate, Marino, Dublia : City of Dublin Technical Schools.	Subjects I., II., III., V. (Div. I.), V. (Div. II.), V. (Div. III.), VII. VIII., X.	GD., P., F., C.O., L. M., and D.
6019	Dabiin: Metropolitan School of Art.	Subjects L and V. (Div. L)	GD., P., Princ. O., S.L., A.M., F., C.O., L., M., D.L., D.A., Anat., D., H.O., Pig. O., Areli., PF., M.A., M.H., M.D. (Stare 2) M.L., and M.D. (Hous
6035	Dublin : Royal College of Science,	Subjects I. H., III., IV., V. (Div. I.), V. (Div. I.), V. (Div. II.), VB., VIII., VIII., VIII., VIII., VIIII., VIIII., VIIII., VIIII., VIIII., VIIII., VIII., VIIII	M.I.S. REGINED. (COUR
6607	Co. KILKENNY: Kilkenny: City Technical School,		GD., F., C.O., L., M., D. Pie, O. and PF.

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## Examination Centres-continued.

Centre	Name of Gentro.	Subjects in which Ex	aminations were held.
Number	Name of Course.	Science.	Art.
6509	King's County: Bur: Technical School,	Subjects L and Vp.	F.
6416	Co. Lourn: Drogheda: Municipal Technical School.	Subjects I., III., V. (Div. I.), vp., VII., IX., X., and Xp.	F., L., and M.
6120 6415	Drogheda: Sienna Convent, Dundalk: Municipal Technical School.	Subjects I., H., HI., Vp., VII., IX., Xp., and XXII.	F. L. M., and D.
6826 6363	Co. MEATH: Kells: Technical School, Navan: Loreto Abhey,	Subjects I. and Vp.	GD., and D.
6310	QUEEN'S COUNTY: Abheyleix: Brigidine Convent	Subjects XIV. and	GD. F. and L.
6750 6359 6106	Castletown: De La Salle School, Mountcath: Desgidine Convent, Mountcath: Mountary School,	=	GD., F., L., and M. F., L., and M.
6311	CO. WESTMEATH: Athlone: La Sainte Union Con-	-	GD., F., L., and D.
6261		Subjects I, and III,	GD., F., L., and M.
6249 6790	Co. WEXFORD : Ennisocethy: Lozeto Convent, New Ross : Municipal Technical School.	Subject III.	D. GD., and F.
6733 6347	Newtownharry: St. Mary's Con- vent. Wexford: Municipal Technical School.	Subjects V. (Div. I.), and XIV.	L. GD., P., S.L., F., I. M., D., and PF.
6397 6457 6702	Co. Wichlow: Arklow: Technical School, Broy: Technical School, Wicklow: Technical School,	Subject Vp. Subjects III. and VII.	GD., and F. F., and M.
	MUNSTER.		
6693 6795 6751	Co. Cons:  Banton:Technical School,  Banton:Technical School,  Permoy:Technical School,	Subjects I, and III.	G. D., F., L., and M. F., L., and M. G. D., P., F., L., M., B and A. D. P., and F.
6615 6839 6395	Kineale: Technical School,	Subject III.	P., and P. GD., F., and M. L.
6384 6766 6519 6501	Academy, Mallow: Technical School, Midleton: Technical School, Passage West: Technical School, Quesustown: Technical School,	Subject IV. Subjects I., II., IV., Vp., VII., VIIA., VIIS., IX., and XXII. Subjects II., Vp., VII., Subjects III.	F., and M. G. D., F., L., and D. F., and M.
6759	Ringaskiddy : Technical School, .	VIIB., IX. and XXII. Subjects II., Vp., VII.,	
6602 6434 6610	Skithhereen: Technical School, Youghsl: Presentation Convent, Youghsl: Technical School,	Subject HL	F., and M. L., and M. GD., F., and L.
6013	Co. Begover of Cong: Cork: Christian Brothers' Schools, Our Lady's Mount.	- 1	G.D. F. L. M. and
6063	Cork : Crawford Municipal Tech- nical Institute.	Subjects L. II., III., V., (Div. I.), Vp., VIA, VIII., VIII., VIII., VIII., IX., VIII., XVIII., and XXII.	D. P., S.L., A.M. F., C.O., L., M., D.L. D.A., D., H.O., PF. M.A., M.H., M.D. (Stap 3) and M.L. F., and M.
6968	Cork: Presentation Brothers' Training College.	XVII., and XXII.	3) and M.L. F., and M.

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## Examination Centres-continued.

Centre	-	Subjects in which Ex-	aminations were held.
Number	Name of Centre.	Science.	Art-
6057 6024	Co. Hosocon or Cons.—con. Cork: St. Aloysin' School, St. Maries' of the life Cork: St. Vimeent's Convent School.	Subject V. (Div. L)	M. GD., F., L., M., and
6714 6689 6678 6571	Co. KERRY: Dinzia: Technical School, Killarney: Technical School, Lutowed: Technical School, Traleo: Central Technical School,	Subject I. Subject III. Subjects I., II., III., Vp., VIIA., and XXV.	F. GD., F., and M. GD., F., and M. GD., P., F., L., M and D.
6160 6039	Co. Bozoude of Linerick: Linerick: Christian Brothers' Schools, Sexton Street. Linerick: Munapal Science, Art, and Technical Schools.	Subjects I., II., III., V. (Div. I.), VP., VIIA., VIII., IX. X., Xp., XI., and XIp.	GD., F., L., M., as D., D., P., A.M., F., I M., D.A., D., FF and M.D. (Stage 2).
6147	Co. TIPPERARY : Casbel : Presentation Convent, .	Subject V. (Div. I).	P. S.L., L., D., an
6889 6556 6145 6969	Cashel; Technical School, Clonmel: Cuntral Technical School, Thurks: Presentation Convent, Thurks: Ursuine Convent,	Subjects I., III., Vp., VIA., VIII., and Xp. Subjects V. (Div. I.), X., and XIV.	F. L. and M. F. and D.
6809 6808 6810	Co. WATERFORD: Dungarvan: Technical School, Limore: Technical School, Transore: Technical School,	Subject III.	F., M., and GD. F., and L. GD., F., M., and I
6477	Co. Beneuer of Waterpern: Waterford: Central Technical Institute.	Subjects I., II., III., V. Oliv. I.), Vin., VII., VII., VIII., VIII., XII., XVIII., VXII., and XXIII.	GD., P., S.L., F., M., Anat., D., Ptg. o
6118 6084 6100	Waterford; Christian Brothers' Schools, Mount Scot. Waterford; Convent of the Sacred Heart, Ferrybenk. Waterford; St. Anne's High School, Ursuline Convent.	-	GD., F., L., M., and GD., F., L., and M. GD., and L.
	ULSTER.		
6358 6119	Co. ANTRIM: Ballymena: Municipal Technical School. Ballymena: The Academy.	Subjects V. (Div. L),	GD., S.L., F., L., S D., and FF.
6850	Ballymoney : Technical School, .	Subjects I., III., V.,	
6845	Carrickfergus : Technical School,	Subjects I., II., III., and Vp. Subjects I., II., III., V. (Div. I.), and XIV.	F, and M.
6232	Larne: Technical School		
6635	Belfast: Christian Brothers' Trades Preparatory School, Belfast: Christian Brothers' Schools, St. Mary's.	Subject Vp.	G. D., F., L., M., and
6227	Belfost: Christian Brothers Schools, St. May? Relifies: Municipal Technical Institute.	Subjects I. H. III. IV. V. Div. I.b. V. Div. I.b. Vp. VI.a. VIIa. VII. VIII. VIIIa. VIII. VIII. VIIIa. VIII. VIII. X. X. Xp. XI. XIp. XII. XXII. And XXV.	
6071	Belfast : Victoria College, .	. AAM, alli AAT.	F.

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### Examination Centres-continued.

		Subjects in which Ex	sminations were held.
Centre Number	Name of Centre.	Science.	Art
639T 8899	Co. Aswagh: Armsgh: Municipal Technical School. Armsuch: Natural History and Philosophical Seciety's Art	Subjects I. III. Vp., XXIV., and XXVI.	GD., S.L., L., M., and D. F. L., M., and D.
6433	Philosophical Society's Art Rooms. Lurgan: Convent of Our Lady of		GD., F., L., and M.
6167	Lurgan : Municipal Technical	Subjects I III Vo	F., L., M., and D.
6514	School. Portadown: Municipal Technical School.	Subjects I., III., Vp., VIA., VIB., and VIIIC. Subjects II., Vp., and VII.	G.D., F., M., and D.
6213	Co. Donegal: Letterkenny: Loreto Convent, .	_	S.L.
6582 6587	Co. Down: Hambeldge: Technical School, Bangor: Technical School,	Subject IX. Subjects V. (Div. I.), X., and Xp.	GD., and F. GD., F., L., M., D. and P.F.
6572	Holywood: Municipal Technical	X., and Xp.	and P.F. G. D., and F.
6514	School. Newry: Municipal Technical School.	Subjects L. III., V. (Div. I.), VIA., IX., X. and Xp. Subjects I., II., and	GD., P., F., C.O., L. M., and D.
6645	Neutownards: Municipal Tech- nical School.	Subjects I., II., and	F., L., and M.
6572	Co. FERMANAGE: Enniskillen: Tochnical School, .	Subjects L, HL, Vp., and VIL	GD., and F.
6133	Co. LONDONDERRY : Coleraine : Technical School, .	Subjects I., H., III., VB., VHIC., X., XP., XXII., and XXVI.	GD., S.L., F., L., M and D.
6163	Limsvady : Technical School, Magherafelt : Technical School,	XXII., and XXVI.	F., M., and D. F., and M.
6549	Co. Borough of Londonderry: Londonderry: Convent of Our Landy of Merry	Subject XIV.	GD., F., and M.
6437	Londonderry: Convent of Our Lady of Mercy, Londonderry: Municipal Tech- nical School,	Subjects I. H. III. V. (Div. I.), V. (Div. II.), Vp., VIA., VIB., VII., VIII., VIII., VIII., VIII., IX., X., and Xp.	GD., P., Princ. O., F. L., M., D.A., D., Ptg O., Arch., and PF.
6121 6323	Co. Monaghan: Carticblayacy: Technical School, Cartickmacross: Convent of St. Louis.	Subject III.	GD., F., and M.
6701 6681	Co. Tyrons : Cookstown : Technical School, Dungamen : Technical School,	Subjects IIL, IX., and	GD., F., L., M., and I S.L., F., L., and D.
6701	Omagh: Technical School,	Subjects I., VIA., and	GD., F., and M.
6705	Strabane : Technical School, .	Subject III.	F., and M.
	CONNAUGHT.		
6596	Co. Galway : Ballinssice : Technical School, .	Subjects I., III., V.	F., L., M., D., and
0166	Galway : City of Galway Techni- cal Institute	Subjects I., III., V. (Div.I.), and Vp. Subjects III., V. (Div. I.), VIA., VIII., IX., X., and XXVI.	G. D., F., L., M., and D.
6218	Co. Maro : Ballins : St. Muredach's College, .		GD., and D.
6765	Co. Smgo : Sligo : Municipal Technical School,	Subjects I. and Vp.	GD., F., L., M., and

TABLE VII.

## LOCAL SCIENCE AND ART EXAMINATIONS (IRELAND), 1911.

## Summaries of Results.

	3	i ear			Number Examined.	Number of Passes.	Number of Failures.	Per centage of Passes.
1911. 1910. 1909. 1908. 1901,	:	:	:	-	6,035 5,926 6,142 5,919 6,339	3,198 3,638 3,535 3,587 3,641	2,537 2,288 2,607 2,332 2,698	52.99 61.39 57.55 60.69 57.44

### (The corresponding figures for the Examinations of 1910 are given in light type.)

			Number Examined.	Number of Passes.	Number of Failures.	Percentage of Passes.
Science Examinations,		-	2,646 2,696	1,746 1,679	902	65.94 62.28
Art Examinations,		1	3,367 3,230	1,452 1,959	1,935 1,371	42.67 60.65

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## Science Examinations (Ireland).

1907/01/10		Stage	1.		tage	2.	-	Btrige	3	17	Tono	nte.
Subject.	Number Examinos.	1st Class.	2nd Clars.	Number Examined.	1st Class.	and Class.	Number Examined.	1st Chass.	2nd Class.	Number Examined	. 1st Class.	2nd Class.
I. Practical Plane and Solid Geometry,	(140	38	41	47	- 6	18	3	-2	5	11	-	- 6
Geometry.	(105	31	43	57	8	39	24	1	8	7	1	3
II. Machino Construction and Drawing.	122	30	62	73	7	35	18	1	7 5	8	1	1
	( 97	19	52	50	7	35	36	8	18	18	,	1
III. Building Construction and Drawing.	103	24	26	50	. 7	28	41	17	20	16	С	I î. I
	( 22	8	10	5	1	4	8	2	4	8	1	1
IV. Navni Architecture, .	98	8	14	9	4	5	8	1	5	-	Ŀ	-
	(147	89	48	140	48	81	43	4	5	-	-	-
Vp. Practical Mathematics, .	(106	37	38	163	24	72	44	2	15	-	-	-
Do. (Section 1 only)	185	138*	-		-	-	-	-	-	-	-	-
Do. (Section I only)	(130	102*	-	-	-	-	-	-	-	-	-	-
VIa. Theoretical Mechanics (Solisis).	58	10	29	61	8	20	9		4	_	_	_
VIn. Theoretical Machanics (Fluids).	8	1 2	3	18	5 3	12	5	-	3	-	-	-
	98	40	36	10	_ "					_	1	_ 1
VIL Applied Mechanics .	90	32	36		_	_	-		-	-	-	-
VII(a). Applied Mechanics	-	-		54	13	30	16	9	1	-	-	-
Materials and Structures),	-	m.	-	68	22	28	20	1	10	-	-	-1
VII(b) Applied Mechanics	5 -	-	-	30	5	14	3	2	-	-	-	-1
(Machines and Hydraulice),	- 1	-	-	30	3	6	14	3	4	-	-	-
VIII. Sound, Light and Heat, .	5 40	13	10	-	-	-	-	-	-	-	-	-
	42	10	17	-	-	7	7		-	-		-
VIIIA. Sound,	9-	-	-	8	3	5	1			1		
				18	2	8	1			Ľ		_
VIII Light,				11	Ľ	5	LÎ.			1		_
			_	28	2	17	3		_	-	_	_
VIIIc. Heat,	- 3	_	_	25	1	13	1	_	1	-	-	-
FF. 16	99	15	29	32	1	11	5	-	1	-	-	
IX. Magnetism and Ricctricity,	92	20	35	18	2	13	1	-	-	-	-	-
X. Theoretical Inorganic	75	16	38	50	-	22	4	-	1	-1	-	-
Chemistry.	(111	21	43	58	7	23	3	1	2	1	-	-
XI. Theoretical Organic Chem-	11	-	6	8	-	2	1	-	-	-1	-	-
zury.	9	1	2	3	3	-	1	-	-1	-	-	-1

\* Passes : only one class of success,

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## Science Examinations (Ireland)—continued.

	80	age 1	.	81	age	2.	St	age :	з.	н	nout	15.
Subject.	Number Examined.	1st Class.	2nd Class.	Number Examined.	1st Clare.	2nd Class.	Number Examined.	1st Class.	2nd Class.	Number Examined.	1st Class.	2nd Class.
Xp. Practical Inorganic Chemistry.	62 81	14	17	34	10 1	10 10	6 3	=	2 2	Ξ	Ξ	Ξ
XIp. Practical Organic Chem- istry,	9 7	1 2	2	2 4	=	_	4	Ξ	1	_	=	Ξ
XIL Geology	2 3	1	=	=	=	=	=	Ξ	_	-	_	=
XIII. Mineralogy,	3	=	- 2	=	=	=	1	=	=	_	=	=
XIV. Human Physiology,	35 44	-	23 11	10 17	1	5	1	=	=	=		-
XVI, Zoology,	1	=	1	- 1	=	1	Ξ	=	Ξ	=	=	=
XVIL Botany,	13 11	6	3 2	1	E	=	=	=	=	Ξ	=	=
XIX. Theoretical Metalburgy,	=	=	=	1	1=	1	=	=	=	=	=	=
XX. Navigation,	3	=	=	1	. =	1	-	=	=	=	-	=
XXII. Reat Engines	60 56	13	30 24	22	4	11	16 11	1 2	11	=	=	=
XXIII. Physiography,	8		1 2	5	=	1	=	=	=	=	=	=
Do. (Section 1 only)	112		=	-	=	=	=	=	-	1=	=	=
XXIV. Agricultural Science and Rural Economy (Sec- tion A).	1 =							-				1
XXIV. Agricultural Science and Rural Economy (Sec- tion B).	{ -	-	-		-	1	-	=				
XXIV. Agricultural Science and Rural Economy (Sec- tion C).	{ -	-	-	1	-	-   -	-	=	1		-	-
XXIV. Agricultural Science and Rural Economy (Sec- tion D.).	9 -	-		-	1 -	1 -		-	-	1	-	-
XXIV. Agricultural Science and Rural Remony (Sec- tion E).	1-	-		- 11	- 3	1 -		-		-		
XXIV. Agricultural Science and Rural Economy (Sec- tion F).	{-						1 -	:	:   -	- []		

· Passes : only one class of success.

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Science Examinations (Ireland)-continued.

		Stage I. *			8	Stage	2.	8	itage	3.	I. Honours.		
Subject.		Number Examined.	Ist Class.	2nd Class.	Number Examined.	1st Class.	2nd Class.	Number Examined.	1st Class.	2nd Class.	Number Examined.	lat Class.	Stad Class.
XXV. Hygiene	(	17	1	8	8	-	2	Ī-	-	-	-	-	-
AAV. Highting,	3	55	6	21	22	-	10	1	-	1	_	_	-
XXVI. Elementary Science of Common Life.	(	32	8	22	-	-	ì —		_	-	-	_	_
Continue Line,	1	36	6	11	l	-	-	I -	_	_	-	_	-
Totals.	(	1324	452	452	708	133	384	218	23	83	37	1	7
rotais,	1	1374	393	111	744	110	357	192	18	11	29	2	9

## SCIENCE EXAMINATIONS (IRELAND)—MATHEMATICS.

	Sta	res 1 to	7.	н	mours.	
_	Number Ex- smined.	Ist Class.	2nd Class.	Number Ex- amined.	Class.	2nd Class.
V. Mathematics, Division I.   Division I.   2 3 4	144 141 89 106 69 57 2 61 40	57 41 18 31 31 23	62 76 50 50 30 23	15	2 2	9 9
Division II. { 5 6	41 40 5	67	23 22 3	Ξ	Ξ	Ξ
Totals,	348 346	112	168 173	15 11	2 2	8

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Apt Examinations (Ireland)

Subject.	Number Ex- amined	First Class.	Second Class.
Freehand Drawing in Outline,	1,001	113 193	328 570
Drawing in Light and Shade from a Cast, .	361	20	100
	344	- 88	124
Model Drawing	607	174	235 126
Geometrical Drawing	416 ·	· 68	130
Perspective,	81 69	12	43
	20	6	7
Drawing of Common Objects from Memory,	24	4	60
Memory Drawing of Plant Form, ,	130	20	63
Drawing from the Antique,	58	27	17
-	39 18	7	14
Drawing the Antique from Memory,	9	2	3
Drawing from Life,	41 42	3	3
Anatomy,	16 28	2 7	9
-	31	4	3
Painting Ornament	47 85	1 9	12 27
Painting from Still Life,	59	18	22
Principles of Ornament,	38 58	_	17
Historic Ornament,	21		4
	14 5	=	10
Architecture,	7	-	3
Architectural Design,	2 2	_	1
Design, Stage I,	255	11	127
	238 81	20	12
Design, Stage II,	98	1	14
Design, Honours,	11	-	1
Modelling the Head from Life,	. 3	1 2	1
Modelling from Life,	10		2
	21	2 1	5
Modelling from the Antique,	26 15	1	5 2
Modelling Design, Stage II	9	=	3
Modelling Design, Honours,	2	=	=
Totals,	3,387	390 534	1,069

## Free Studentships (Art) Awarded to Irish Students

Belfast: Municipal Technical Institute.

Name of Candidate.	, Group	Place in Order of Merit in Competition.
Paul, Philip R	Drawing and Painting	 2
Grew, Emma G M	Drawing and Painting	 13

## King's Prize (Science) Awarded to an Irish Student.

BELFAST: MUNICIPAL TECHNICAL INSTITUTE.

Name of Candidate.	Subject for which Prize was awarded.
Lowry, Frederick,	Heat Engines—Stage II.

## King's Prizes (Art) Awarded to Irish Students.

Belfast: Municipal Technical Institute.

Name of Candidate.	Subject for which Prize was awarded.
Megaw, Jeanette Irene,	Memory Drawing of Plant Form.
M'Cullough, Lilian, .	Drawing in Light and Shade from a Cast.

## LIMERICK: MUNICIPAL SCIENCE, ART, AND TECHNICAL SCHOOL

Name of Candidate.	Subject for which Prize was awarded.
O'Carroll, Edward Thomas.	Model Drawing.

# Medale gained by Irish Students for securing First Class Successes in the Examinations in Honours of Science Subjects.

#### Ballymena: Academy.

Name of Candidate.	Subject for which Medal was awarded.		
Acheson, James Alexander	Pure Mathematics—Division I.		

## BELFAST: MUNICIPAL TECHNICAL INSTITUTE.

Name of Candidate.	Subject for which Medal was awarded
	*** :
Hudson, Norman Leslie, .	Naval Architecture.

## DUBLIN: CITY OF DUBLIN TECHNICAL SCHOOLS.

	Name of Candidate.	Subject for which Medal was awarded.	
and the same of th	Casey, Thomas Augustine,	Pure Mathematics—Division L	

#### TABLE VIII.

### NATIONAL COMPETITION, 1911.

## Medals, Prizes and Awards gained by Irish Students.

#### BELFAST: MUNICIPAL TECHNICAL INSTITUTE.

Name.	Description of Work.	Award.
Doulop, Ritsabeth, Ferquson, Annie, Geddis, Wilhelmins M., Gelmore, Elisabeth R.F., Grew, Emma G. M., Lifley, William, M'Casnell, James A., M'Donnell, Suson A. G., M'Downell, Lucy, M'Ediver, Frank.	Medicible bust from the east,  busines for damping table cloth,  busines for the cost, in relect,  busines for stained giase panel,  from the,  bottle for stained giase panel,  bottle for stained giase panel,  business for stained giase panel,  business for stained giase panel,  business for the cost of the cost of the  panel giase for the cost of the cost of the  panel giase for the cost of the cost of the  business for the cost of the cost of the  business for the cost of the cost of the  business for the cost of the cost of the  business for the cost of the cost of the  business for the cost of the cost of the  business for the cost of the cost of the  business for the cost of the cost of the  business for the cost of the cost of the  business for the cost of the cost of the  business for the cost of the cost of the  business for the cost of the cost of the  business for the cost of the cost of the  business for the cost of the  business	National Book Prize. Companended. National Beok Prize. Bronze Medal. Grounended. Commended. Commended. Commended. Commended. Commended. Commended. Commended. National Book Prize. Commended. National Book Prize. National Book Prize. National Book Prize. Commended. National Book Prize. Recommended.

## CORK: CRAWFORD MUNICIPAL TECHNICAL INSTITUTE.

Name.	Description of Work.	Award.
Anglin, Bessie,	Designs for lace, Model of a head from life, Model of a head from life, Shaded drawing of a head from the antique, Studies of historic styles of ornament. Design for lace nearly	National Book Price, Sliver Medal, Commended, Bronze Medal, Commended, Commended,

## DUBLIN: METROPOLITAN SCHOOL OF ART.

Name.	Description of Work.	Award.	
Binsted, Augusta J.,	Monochrome painting of a bust from the cast Study of historic style of ornament, worked in material.	Commended. National Book Prize	
Bowe, Francis, .	. Monochrome painting of a figure from the	Commended.	
Cassidy, Agnes, . Clarke, Harry, .	Designs based on a flowering plant, Designs for stained class.	Commended, Gold Medal.	
Cox, Olive M.,	Studies of historic styles of ornament, . Design for crochet point collar.	National Book Prize Commended, Silver Medal.	
Crilley, Margaret,	Oil painting of a figure from the nude : Time sketches of figures from the nude, Oil nainting of a head from life	Bronze Medal. National Book Prize Commended.	
Dawes, Bertha R.,	Designs for lace searf and fichu.	Bronze Medal, Commended.	
Drury, Michael,		Bronze Medal. Commended.	
Elvery, Elken, Evans, Helena,		Commended.	
Fox, Kathleen,	Design for a copper and silver mirror,	National Book Prize	
Garry, William, Gray, Hilda S.,	Design for stained glass panel,	National Book Prize	
Kingston, Annie C.,	Design for lace flounce, Design for lace pelerine and collar,	Commended.	
Lakeman, Ernest,	. Study of historic style of ornament, worked in material	Commended.	
Lamont, Jeannie,	Studies of plant-form. Design for damask table-cloth. Design for damask tea table-cloth.	Commended. Bronze Medal.	
Lang, Charlotte E.,	Design for damask ten table-cloth,	National Book Print	
Luke, Effic, Meagher, Denis,	Design for enamelled copper candlestick, Studies of plant-form,	National Book Prize Commended.	
Power, Albert G., Quiely, Kathleen M., Rhind, Ethel.	. Model of a figure from the nude, Desirn for enamelled metal bowl and stand, Shaded drawings of heads and bands from life	Gold Medal. Silver Medal.	
Slator, James S.	f Group in off-colours	Silver Medal.	
Smith, William D.,	Time sketches of figures from the nude, Design for namel in painted tiles.	National Book Prize National Book Prize	

## LURGAN: MUNICIPAL TECHNICAL SCHOOL.

Ì	Name.	Description of Work.	Award.	
	Monroe, Frederick A	Deelgn for damnsk table-cloth,	Commended.	

## SLIGO: MUNICIPAL TECHNICAL SCHOOL.

Name.	Description of Work.	Award.	
M'Dermott, John J.,	Modelled head from the cast, in relief, .	National Book Prize.	

## TABLE IX.

#### EXAMINATIONS IN SUBJECTS OF TECHNOLOGY (IRELAND), 1911.

## Summaries of Results.

	,	YEAR.				Number of Candidates Examined.	Number of Candidates Passed.	Number of Prizes
1911, 1910, 1909, 1908, 1907,	:	:	1	:	-	934 887 997 822 873	499 503 512 446 493	10 15 10 10

No. of School	Centre of Examination.	Number of Candi- dates Examined.	Number of Candi- dates Passed.	Number of Prizes.
6397 6596 6611 6358 6850 6227 8248 6121 6566 6935 6071 6116 6010 6019 8415 6387 637 6072 6387 6073 6073 6073 6073 6074 6075 6076 6076 6076 6077 6077 6077 6077	Armach i Municipal Technical School, Ballimater i Technical School, Ballimater i Technical School, Ballimater i Technical School, Ballymoner i Municipal Station, Ballymoner i Municipal Station, Ballymoner i Municipal Station, Ballymoner i Municipal Station, Ballymoner i Technical School, Ballymoner i Technical School, Ballymoner i Technical School, Ballymoner i Technical School, Control Central Periodical School, Control Central Periodical School, Control Central Periodical School, Copt. (Granter Minicipal Technical School, December i Municipal Technical School, December i Menter i Menter i Technical Ballimoner i Menter i Technical School, December i Menter i M	16 X 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5 8 1 7 1 1 1 1 8 7 1 1 1 1 1 1 1 1 1 1 1	
62.32	Large : Teomacan School,	0 1		

## Examinations in Subjects of Technology (Ireland), 1911—continued.

No. of School	Centre of Examination.	Number of Candi- dates Examined.	Number of Candi- dates Passed.	Number of Prises.
6039 6037 6433 6367 6963 6544 6645 6707 6604 6759 6041 6765 6708 6571 6477	Emericki Nymiczał Science, AM szał, Zwaliczał Soczaliczał Techniczał Zwaliczał Soczaliczał Techniczał Zwaliczał Soczaliczał Zw	222 459 28 - 188 20 - 112 112 112 113 2 - 113 4 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	12 22 22 12 15 7 15 17 18 10 10 13 3 3 2 2 3 6 7	1-1-1[]
	Totals, .	934	499 508	10 15

## Prizes and Medals gained by Irish Students.

#### Belfast : Municipal Technical Institute.

Name.	Subject	Grade.	Place taken at Exami- nation.	Prize.
Brown, Thomas W., . Dunwoody, David R. Fairolough, John, . Kebo, William A., .		Ordinary, Ordinary, Ordinary,	Second, (equal) First, First, Third,	Bronze Medal  ###################################
Lamont, Joseph P., . Langtry, William R., Oldham, Thomas H.,	(Designing). Lines Weaving	Ordinary,	First, Third, First,	23 (Clothworkers) and Sliver Modal, Bronze Modal, 23 (Clothworkers) and Sliver Medal.

## DUBLIN: CITY OF DUBLIN TECHNICAL SCHOOLS.

Name.	Subject	Grade.	Place taken at Exami- nation.	Prise.
Keogh, Hugh,	Plasterers' Work.	Ordinary,	Second,	£1 10s. (Plaisterers) and Bronze Medal.

## Prizes and Medals gained by Irish Students .- continued.

#### FERMOY : TECHNICAL SCHOOL.

Name.	Subject	Grade.	Place taken at Exami- nation.	Prize.		
Coughlan, Patrick,	Masonry,	Honours,	Second, (equal)	#1 5r. (Cordwainers) and Silver Medal.		

#### LURGAN: MUNICIPAL TECHNICAL SCHOOL.

Name.	Subject	Grade.	Place taken at Exami- nation.	Prize.		
M'Evoy, Francis,	Linen Weaving	Ordinary,	Second, (equal)	15s. (Clothworkers) and Bronze Medal.		

- LIST of IRISH CANDIDATES awarded SCHOLARSHIPS and EXHIBI-TIONS offered by the Worshipful Company of Drapers on the results of the Examinations of the City and Guilds' of London Institute in the several branches of Textile Manufacture.
- One Scholarship of the Annual Value of £60, in addition to College Fees, tenable for two years.
- Livingston, William M. (Linen Weaving)—Lurgan: Municipal Technical School.
- Three Exhibitions of the Annual Value of £10, tenable for two years.

  Crozier, Joseph (Linen Weaving)—Lurgan: Municipal Tech-
- nical School.

  Dunwoody, David R. (Flax Spinning)—Belfast Municipal
- Technical Institute.

  Gilpin, George (Linen Weaving)—Lurgan : Municipal Technical
- School.

Extract from the Annual Report of the City and Guilds of London Institute for the Session 1910-11.

"The number of registered datases in Technology, and of Stedarts in attendance lasts of the forecasts on contained with all any year, room [16] to \$100, and from \$2.35\$ to \$2.76\$ to \$2.000 the forecast of the contained with all any year, room [16] to \$00, and from \$2.35\$ to \$2.76\$ period with 500. Of the prince and mediate offseed by the Institute, 10 have been awareful to \$100. The contained and the first principle of the prin

## ROYAL COLLEGE OF SCIENCE, DUBLIN.

FORTY-THIRD ANNUAL REPORT OF THE DEAN AND COUNCIL FOR THE ACADEMICAL YEAR, 1910-11.

To the Secretary, Department of Agriculture and Technical Instruction for Ireland.

SIR,—I have the honour to submit to you the Forty-Third Annual Report of the Royal College of Science.

During the Session 1910-11 there were four Royal Scholars, fifteen Science Scholars, thirty-three Agricultural Scholars (including one in Horticultura end two in Forestry), thirteen Teachers-in-Training-two Local Exhibitioners, orne-Special Research Students, four Post-Graduate Students to whom Research Studentships had been awarded, twentys-nie feepaying Associate Students and twenty occasional students

paying fees.

The total number of individual students in the College during

the Session was one hundred and twenty-one.

Sessional examinations were held in forty-two subjects and conjoint examiners were appointed by the Department in these

conjoint examiners were appointed by the Department in these subjects.

The annual award of diplomas, scholarships and prizes was made by the Council on the 30th June, 1911.

The Registrar reports that Short Summer Vacation Courses to Science Teachers were given in the following subjects:—

Chemistry,			Second				student
P.			Third				**
,,			Fourth	Year	to	35	
Physics.			Third				45"
11,000,000			Fourth	Year	to	16	- 11
Mechanical	Science.		Third	Year	to	9	**
n	"		Fourth	Year	to	6	
Rural Ecor	omv.		First .	Year	to	28	,,
244444			Second	Year	to	21	**
Physical G	ography,				${\rm to}$	40	,,
Hygiene ar		rsin	g	٠.	to	17	**
Total Num	ber of Ind	ivid	ual Stud	ents,	-	220	.,,

The following students were awarded the Diploma of Associate of the Royal College of Science on the results of the Sessional Examinations held in June, 1911:-

Faculty of Engineering.-R. W. Duncan, D. McAlonan, W. C. McWhinney.

Faculty of Applied Chemistry .- P. A. McKenna, J. Reilly, A. T. Henley, H. W. Moss, W. G. Rea.

Faculty of Agriculture. - J. Crowley, N. Dromey, M. J. Gorman. J. Mahony, P. T. O'Hare, M. J. O'Leary, A. Scully, E. Gallagher, P. Murphy.

Teachers-in-Training.—Chemistry Section—J. H. Cooke: Miss B. B. S. Dawson, D. Hayes, Miss G. V. Morrow, H. R. S. Clotworthy.

Physics Section-W. M. Wakeley. Natural Science Section-Miss B. McI. Blair, Miss E. A. Scott.

Mr. W. C. McWhinney, who obtained his Associateship in Engineering this year, was awarded one of the newly-founded Industrial Bursaries-value, £100 a year, renewable for a second vear-by the Royal Commissioners for the Exhibition of 1851. in competition with other Colleges. For the tenure of his bursary he has entered the works of the Lanchester Motor Co.

A limited number of Research Studentships having been established, as mentioned in the Report of last year, the Council received five applications and awarded four Studentships in Chemistry.

At the close of the Session, the Council was honoured by the announcement that His Majesty King George V., during his visit to Dublin, would open the new buildings of the Royal College of Science, the first stone of which was laid by His Majesty King Edward VII., in 1904.

On July 8th, the King and Queen visited the building in state, and the Professors and Registrar had the honour of being presented to their Majesties.

Unfortunately, owing to very serious illness, W. N. Hartley. D.SC., F.R.S., Professor of Chemistry and Dean of Faculty, was incapacitated from the duty of attendance, and from receiving the honour of knighthood from the King, in person, on that occasion.

> I have the honour to be, Sir, Your obedient Servant.

> > W. N. HARTLEY.

#### CHEMISTRY.

#### Professor :- W. N. HARTLEY, D.SC., F.R.S.

The number of students attending the courses of Chemistry were:—Thirty-six of the first year, twenty-five of the second year, six of the third year, and four research students.

year, six of the third year, and nour research stateties.

To the situations of the first year, fifty-five testures were delivered by the Professor on General Chemistry, including the outlines and principles of Metallaurya and Thermo-Chemistry. To students of the third year and to the research students he delivered a course of thirtiera lectures on the Applications of Spectroscopy to Chemical Analysis and Research, which was attended by nine students.

In the chemical laboratories there were thirty-six students of

the first year in charge of Dr. Pollok and Mr. Moss.

The total number of students attending the various courses in Chemistry was seventy-one.

#### Research Work.

The following papers have been published:-

"On some Mineral Constituents of a Dusty Atmosphere."
By Professor Hartley. (Proc. Roy. Soc., June, 1911,

Vol. 85, p. 271).
"The course of Chemical Change in Quinol under the Influence of Radiant Energy." By Walter Noel Hartley and Otway Henry Little. (Transactions of the Chemical Society, 1911. Vol. 99, pp. 1079-1091).

#### ORGANIC CHEMISTRY.

#### LECTURER :- A. O'FARRELLY, M.A.

The usual course of fity lectures on Organic Chemistry was given during the first and second terms. This course was attended by eleven students of the second year and by such students of the third year as wished to attend. The introductory lectures were also attended by thirteen agricultural students. A special course of lectures on Advanced Chemistry was given during the third term, which was attended by the third year students and the post-graduates.

A special short course, consisting of ten lectures and a practical introduction to the methods of Organic Chemistry, was given in the third term to thirteen agricultural students.

In the laboratory, separate courses of instruction were given by the Lecturer to six Teachers-in-Training, to five students of the second year in the Faculty of Applied Chemistry, and to six students of the third year.

There were also four research students of the fourth year, who were engaged in various original investigations, and whose work was highly creditable. This work is being continued.

## ELECTRO-TECHNOLOGY AND PHYSICS. ELECTRO-TECHNOLOGY.

Professor:-W. Brown, B.SC., M.I.E.E., M.R.I.A.

There were twenty-three students in the second year, viz., ten in the Faculty of Engineering, six in the Faculty of Applied Chemistry six Teachers in Training and one consistent student

Chemistry, six Teachers-in-Training, and one occasional student. Fifty lectures were delivered by the Professor, the whole of which were attended by the Engineering students, thirty-two by the Teachers-in-Training, and eighteen by the students of Chemistry. There were twelve Tutorial classes given by Mr.

Chemistry. There were tweive futorial classes given by Mr.
Allen.
The Laboratory work consisted of fifty-eight lessons given by

the Professor and Mr. Allen, the whole of which were attended by the Engineers, thirty-eight by the Teachers-in-Training, and thirty by the Chemists.

The course in the Third Year consisted of fifty-five lectures

The course in the Third Year consisted of litty-five lectures delivered by the Professor, attended by eight students; and seventy-six Laboratory lessons, including dynamo design and drawing, under the Professor and Mr. Allen.

During the session, the Third Year students in Engineering were taken to visit the Electrical Lighting and Power Stations at Ringsend, Ballsbridge, Rathmines, and Fleet Street, Dublin.

at kingsent, basisoringe, naturnines, and refect Street, John. The Professor read a paper before the Royal Dublin Society on "Mechanical Stress and Magnetisation of Nickel (Part 2), and the subsidence of torsional oscillations in Nickel and Iron wires, when subjected to the influence of longitudinal magnetic fields"; which were subjected to the influence of longitudinal magnetic fields "; which were subjected to the latter Sciencife Breeze Magnetic fields ";

which was published in their Scientific Proceedings. Mr. W. J. Lyons, B.A., Alex, Sec. (London), read a paper before the Royal Dublin Society on "A method of exact determination of the continuous change in absolute Density of a Substantiae.g., Wax, in passing through its fusion stage," which was published in their Scientific Proceedings.

#### PHYSICS.

#### LECTURER :- FELIX E. HACKETT, M.A., B.SC., PH.D.

The course of instruction in the first year consisted of sixty-one lectures and sixty-one laboratory lessons. It was attended by thirty-five students, of whom thirty-two were associate students

and three were non-associate students.

The general course of instruction in the second year consisted

of thirty-three lectures and thirty-three laboratory lessons. Students in the Faculty of Engineering were given a special course in the laboratory, extending over twenty lessons. The course of lectures was attended by twenty-two associate students and one occasional student. Of the associate students, ten were in the Faculty of Engineering, six were in the Faculty of Applied Chemistry, and six were Teachers-in-Training. The course for the third year was taken by one Teacher-in-Training, who received eighty-four lectures and carried out a course of advanced work in the laboratory during the year. The general work in the laboratory was in charge of Mr. W. J.

The general work in the laboratory was in charge of Mr. W. J. Lyons, B.A., A.B.C.S.C.L., and Mr. F. W. Warwick, B.A., B.E., A.B.C.S.C.L., under the direction of the Lecturer.

#### MATHEMATICS.

Professor: -W. McFadden Orr. M.A., f.r.s.

In the Department of Mathematics the following lectures were delivered:—

By Professor Orr :-

To first year students.—Eighty-one lectures in Pure Mathematics; sixty-five lectures in Mechanics. To second year students.—Thirty-nine lectures in Pure Mathematics; thirty-cight lectures in Mechanics.

To third year students.—Sixty-five lectures in Applied Mechanics; forty-five lectures in Thermodynamics; ten lectures in Mathematical Physics.

The usual exercise classes for students of the second and of the third year were also held.

By Dr. Johnson :-

twenty-six occasions.

To first year students.—Eighty-six lectures in Mathmatics.

To second year students.—Twenty-seven lectures in Mathematics; thirty lectures in Mechanics. To third year students.—Eighteen lectures in Mechanism:

Fifty-three lectures in Mathematics.

The first year class for Mathematical Exercises also met on

## AGRICULTURE.

PROFESSOR :- JAMES WILSON, M.A., B.SC.

During the Session 1910-11, 143 lectures in Agriculture were given. There were ten students in the class, and eight of them were awarded the Diploma of the College at the end of the Session

### AGRICULTURAL BIOLOGY.

LECTURER :- DAVID HOUSTON, F.L.S.

A course of lectures, with corresponding laboratory work in Agricultural Botany, was given during the first term to agricultural students and one horticultural pupil of the third year. All the candidates passed the Sessional Examination. During the third term, a course of lectures, with accompanying laboratory instruction on Agricultural Bacteriology, was given to the third year agricultural students.

to the third year agricultural students.

An investigation for the Department on the effect of salt and various chemical preservatives on the keeping qualities of butter was carried on and completed during the Summer and early Autumn months.

#### AGRICULTURAL CHEMISTRY.

#### LECTURER: -GEORGE STEPHENSON.

This course, which comprised thirty lectures and fifty-two laboratory lessons, was attended by twelve students, all of them candidates for the Associateship, eleven in Agriculture and one in Forestry.

For the past nine sessions—ever since its commencement this course has been given in the laboratory of the Albert Agricultural College, which, though not specially equipped for advanced classes, has alforded excellent incillies for the work. The College Farm, too, has been freely drawn upon for material and examples, and the thanks of the Lecturer and his colleagues and examples, and the thanks of the Lecturer and his colleagues ready assistance, which has contributed materially to the efficiency of the teaching and to the comfort of all concerned.

#### GEOLOGY AND MINERALOGY.

## PROFESSOR:—GRENVILLE A. J. COLE, M.R.I.A., F.G.S.

The following courses were carried out, as arranged for in the Programme of Studies:—

I. Mineralogy.—Thirty lectures by the Professor, with twentythree days' practical work, including one field-excursion to the Ovcoa Mines, attended by eight students of the Faculty of Chemistry in their third year.

II. Geology.—Forty-five lectures by the Professor, and thirtyfour days' practical work, including seven field-excussions, attended by thirteen students of the Faculty of Agriculture in their second year, and one occasional student. The field-work included a visit to the Chalk and Basalt near Belfast, the class voluntarily devoting a Saturday to this excursion.

III. Geology for Teachers-in-Training in their third year.— The same course as in the Faculty of Agriculture, with additional practical lessons in petrology and palezontology, attended by two students. An additional field-excursion, in connexion with that to Beflast, was made to the igneous rocks of Carlingford.

IV. Geology for Teachers-in-Training in their second year.— A course of thirteen lectures and fifteen days' practical work, including five field-excursions, attended by six Teachers-in-Training, and one occasional student. In connexion with a botanical visit to Avondale, a night was spent at Glendalough. and the class proceeded next day by Lough Nahanagan and Wicklow Gap to Poulaphouca.

V. Soil-Phusics.—A course of six lectures and ten days'

practical work, including one field-excursion, attended by thirteen students of the Faculty of Agriculture. The excursion was to the Department's agricultural station at Ballyhaise, where Mr. T. Hallissy, of the Geological Survey, explained the types of soil and the principles adopted in soil-mapping.

Among the additions to the Geological Collections may be mentioned :-

A series of mineral ores from Cobalt, Ontario,

Models of the "Star of the South" and "Stewart" diamonds.

Ten photogravure portraits of eminent geologists. A card-catalogue of the geological lantern slides has been prepared.

The following papers were published:-

"On the mineral condition of the calcium carbonate in fossil shells." By G. A. J. Cole and O. H. Little. Geol. Mag., 1911, p. 49.

"Glacial features in Spitsbergen in relation to Irish Geology." By G. A. J. Cole. Proc. Roy. Irish Acad., vol. xxix., Section B., p. 191.

#### BOTANY.

#### Professor: -T. Johnson, d.sc., f.L.s.

The usual courses in Structural and Systematic Botany for Associate students were held and attended by thirteen agricultural students and eight technical scholars.

A special course in "Timber and its diseases" was attended As the Professor of Botany was set free from the charge of

by a third year student in Forestry.

the Seed-testing Station, after ten years' direction of it, he has been able to give undivided attention to the Botanical teaching in the College and to the Botanical Collections in the National Museum during the past session.

The course in Plant Pathology was conducted partly in the Museum and partly in the College.

Papers published.

T. Johnson: --

 "Is Archæopteris a Pleridosperm?" (see Procs. R.D.S., vol. xiii. N.S., 1911).

(2.) "The occurrence of Archæopteris Tschermaki Stur and of other species of Archeopteris in Ireland " (op. cit., 1911).

#### ZOOLOGY.

PROFESSOR: -GEORGE H. CARPENTER, B.SC., M.R.I.A.

Teaching.—The second year students of the Faculty of Agriculture received, as usual, their exological instruction during the first term. Eleven students attended the laboratory on fiftyyear Teachers-in-Training, held concurrently, was attended by your Teachers-in-Training, held concurrently, was attended by two students. This course comprised fifty-four full days' laboratory work, forty-nine lectures from the Professor and sixteen lectures on Hygiene from Dr. Clarke. The students of these that the state of the students of the second and third terms.

In the third term, the short course for second year Teachers was attended by six students who studied in the laboratory on twenty-one days, did zoological field work on three days, and received eighteen lectures. A third year course in Entomology for a Foresty Scholar of the Faculty of Agriculture was carried

on through the third term.

Owing to scrious illness, the Professor was unavoidably absent for the last five weeks of the third term. The Teachers' class was then ably conducted by Dr. Clarke who gave ten of the lectures. By find permission of Dr. Sebraff, the Forestry student worked in the National Museum under the capable supervision of Mr. J. N. Halbert. Miss M. C. MacDowell, an Associate of the College, pursued a

Miss M. C. MacDowell, an Associate of the College, pursued a fourth year course during the session. Her first and third terms were mainly devoted to advanced work in Physiology and

Hygiene under Dr. Clarke's supervision.

Albert College.—During the second term, the Professor conducted, as in recent years, nine evening classes for horticultural students from the Albert College, Glasnevin. He also attended at that College on six days to supervise the zoological teaching to the agricultural students there.

Delegations.—In April, the Professor visited Birmingham and presided over the meeting of the Association of Economic Biologists.

Research.—Miss M. C. MacDowell devoted the second term of the session to a study of the jaws of some coleopterous larve, on which a paper will shortly be published. The papers by the Professor published during the session were:—

"New Irish Apterygota." Irish Naturalist, Vol. XX., 1911.
"Notes on the Warble Fly of the Reindeer." Journ. Econ.
Biol., Vol. V., 1910.

"Some Dipterous Larvæ from the Turnip." Journ. Econ. Biol., Vol. VI., 1911.

"Injurious Insects and other Animals observed in Ireland during the year 1910." Econ. Proc. R. Dublin Soc., Vol. II., 1911., No. 3. "Notes on the Oestridæ," Ier Congres International d'Entomologie, 1910.

Articles on "Hexapoda," "Aptera," "Colcoptera," "Hemiptera," "Hymenoptera," "Lepidoptera," "Neuroptera," "Orthoptera," and other entomological subjects, contributed by the Professor to the 11th edition of the Encuclopædia Brittanica, were also published during the session.

#### ENGINEERING.

Professor: -H. H. Jeffcott, B.A.I., M.LMECH.E. LECTURER :- J. TAYLOR, M.A.

In the Department of Engineering the following courses of

instruction were given during the session :---

To the first year students a course in Practical Geometry and Mechanical Drawing of twenty-nine lectures by Mr. Taylor. and thirty practical lessons. Attended by thirty four students. To the second year Engineering students, a course in Machine Construction and Steam Boiler Practice, of sixty-two lectures, by Professor Jeffcott; eighty-six lessons in the Drawing Schools, Laboratory and Workshop. Attended by thirteen students.

To the second and third year Engineers a course in Surveying and Levelling, of twenty-eight lectures by Mr. Taylor, and eight days' field work, and twenty-eight lessons in Mapping and

Plotting. Attended by eighteen students. To the third year Engineering students a course in Structural Engineering and the Design of Steam Engines, Turbines, Gas

and Oil Engines and Hydraulic Machinery of sixty-four lectures by Mr. Taylor, and one hundred and twenty-four lessons in the Engineering Schools. Attended by eight students. To the second year Agricultural students, a course in Survey-

ing and Levelling, of seventeen lectures by Mr. Taylor, and five pays' field work, and sixteen lessons in Mapping and Plotting. Attended by thirteen students.

To the third year Agricultural students, a course in Building Construction and Agricultural Engineering, of twenty lectures by Professor Jeffcott, and nine lessons in the Engineering Schools and workshops. Attended by thirteen students,

In addition to the Associate students, there were ten nonassociate students attending the various courses in the Engi-

neering Schools.

Visits were made during the session to various engineering works, including G. S. & W. Rly. Works, Inchicore; M. G. W. Rly. Works, Broadstone; Pigeon House Power Station; and the new works at Roundwood.

### REPORT OF THE REGISTRAR OF THE ROYAL COLLEGE OF SCIENCE FOR IRELAND FOR THE SESSION 1910-11.

The number of Students who attended the College during the Session 1910-11 was 121: of which 20 were Non-Associate Students and 96 Associates-including two Local Exhibitioners undergoing a three years' course-There were, in addition, one Special Research Scholar and four Post-Graduates to whom Research Studentships had been awarded under the Scheme inaugurated by the Department in the Session 1909-10.

The corresponding numbers for the past five years were :-

Sossion.	Associate.			Non-Associate.		
1905-6.	 	83			38	
1906-7,	 	68			38	
1907-8,	 	73			33	
1908-9,	 	85			32	
1909-10,	 	92		£ .	26	

The 96 Associate Students were divided as follows:--First Year,

34 35 Second Year, Third Year,

The following Third Year Students passed their final Sessional examinations and were awarded the Diploma of Associate of the College :-

Faculty of Engineering. - R. W. Dunean, D. McAlonan, W. C. McWhinney. Faculty of Applied Chemistry,-P. A. McKenna, J. Reilly, A. T. Henley, H. W. Moss, W. G. Rea.

Faculty of Agriculture.-J. Crowley, N. Dromey, M. J. Gorman, J. Mahony, P. T. O'Hare, M. J. O'Leary, A. Scully, E. Gallagher, P. Murphy. Teachers-in-Training, Chemistry Section.-J. H. Cooke, Miss B. B. S. Dawson, D. Hayes, Miss G. V. Morrow,

H. R. S. Clotworthy. Physics Section,-W. M. Wakeley. Natural Science Section .- Miss B. McI. Blair, Miss E. A. Scott.

Of the two Royal Scholarships offered for competition to Associate Students of the First Year who are not Science and Technological Scholars, Teachers-in-Training, Local or other Exhibitioners, one only was awarded, viz., to Mr. George Harris, the standard attained by the other competitors not being considered sufficiently high for the award of the Second Scholar-

ship. The Silver Medal offered for competition to all First Year Associate students was won by Mr. James Nagle.

The following is a complete list of the Scholarships, Medal, and Prizes awarded on the results of the Sessional Examinations :-1910-11.

Mr. James Nagle. Silver Medal, First Royal Scholarship, Mr. George Harris. Not awarded. Second Royal Scholarship, ...

> PRIZES. FIRST YEAR.

Mathematics.-Upper Division.-J. J. Smith, 1st. W. Perry, 2nd.
Mathematics.—Lower Division.—E. J. Kennedy, 1st. T. Blake, 2nd.

Mechanics.-J. Nagle, 1st. J. J. Smith, 2nd. Practical Geometry.-M. Kendy A. M. McLoughlin Prizes divided.

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Experimental Physics.—J. Nagle, 1st. A. M. McLoughlin, 2nd. Chemistry.-J. J. Smith, 1st.

J. Nagle, 2nd. SECOND YEAR,

Mathematics,-O. McKenna, 1st. W. M. O'Riordan, 2nd. Mechanics .- O. McKenna, 1st.

W. M. O'Riordan, 2nd. Machine Construction .- R. J. England, 1st. R. J. Lannon, 2nd.

Physics.—O. McKenna, 1st. A. F. O'Dowd, 2nd,

Electro-Technology (Chemists).-P. O'Connor, 1st. R. Fleming, 2nd.

(Teachers) .- W. M. O'Riordan, 1st. O. McKenna, 2nd. (Engineers) .- J. Lowry, 1st.

R. J. Lannon, 2nd. Organic Chemistry.-W. M. O'Riordan, 1st.

Organic Unemissity.—w. ni. Ormoraum, 1800 O. MeKenna, 2nd. Mineral Analysis (Teachers).—R. L. Valentine, 1st. W. M. O'Riordan, 2nd. (Chemists).—P. O'Comor, Prize.

Botany (Teachers).-R. L. Valentine, 1st. Miss A. M. Hemphill? W. M. O'Riordan 2nd divided

Geology (Teachers).-W. M. O'Riordan, 1st-R. L. Valentine, 2nd. Zoology (Teachers),-R. L. Valentine, 1st.

Miss A. M. Hemphill, 2nd. SECOND YEAR, AGRICULTURE,

Botany -W. McLean, 1st. M. Caffrey, 2nd.

Geology -T. R. Hewitt, 1st.

M. Caffrey T. O'Connell 2nd divided. Zoology.—T. R. Hewitt Prizes divided.

Soil Physics .- W. McLean, 1st. T. R. Hewitt, 2nd. Surveying .- T. R. Hewitt, 1st, W. McLean, 2nd.

THIRD YEAR. Mathematical Physics.—W. M. Wakeley, Prize. Applied Mechanics.-D. McAlonan, 1st. R. W. Duncan, 2nd. Thermodynamics.-J. Reilly, 1st.

D. Hayes D. McAlonan 2nd divided. Engineering.—R. W. Duncan, 1st-N. E. W. Sloan, 2nd.

Surveying.—S. W. Irwin, 1st. N. E. W. Sloan, 2nd. Mechanism .- R. W. Dunean, 1st.

D. McAlonan, 2nd. Electro-Technology.-S. W. Irwin, 1st.

R. W. Duncan, 2nd. Analytical Chemistry .- J. Reilly, 1st. Miss G. V. Morrow, 2nd. Mineralogy.—D. Hayes | Prizes divided. Botany (Teachers).-Miss B. McI. Blair, Prize. Geology (Teachers).—Miss B. McI. Blair, Prize. Zoology (Teachers).-Miss B. McI. Blair, Prize.

THIRD YEAR, AGRICULTURE. Agriculture.-M. J. O'Leary, 1st.

A. Scully, 2nd. Agricultural Bacteriology.—P. T. O'Hare, 1st. A. Scully, 2nd.

Agricultural Botany .- M. J. Gorman, 1st. A. Scully, 2nd.

Agricultural Chemistry.—M. J. Gorman, 1st. P. A. Murphy, 2nd. Veterinary Science.-A. Scully, 1st.

P. T. O'Hare, 2nd. Engineering.-J. Crowley J. J. Hegarty Prizes divided.

Short Summer Courses of Lectures and Laboratory work for Science Teachers engaged in Secondary and Technical Schools carrying out the Department's Scheme of Technical Instruction throughout the country were held during the month of July in the following subjects:-

Chemistry, Second Year, attended by 29 Students. Chemistry, Third Year, attended by 12 Students, Chemistry, Fourth Year, attended by 35 Students.

Physics, Third Year, attended by 7 Students. Physics, Fourth Year, attended by 16 Students.

Mechanical Science, Third Year, attended by 9 Students. Mechanical Science, Fourth Year, attended by 6 Students.

Physical Geography, attended by 40 Students. Hygiene and Sick Nursing, attended by 17 Students.

At the end of the course there was a Theoretical and Practical examination in each subject.

There was also a course on Rural Economy and School Gardening during

the month of August, attended by 28 students for the First Year, and 21 Students for the Second Year of the course. This course is intended mainly for Teachers working under the Board of National Education and was conducted partly at the College and partly at the Albert Agricultural College, Glasnevin, and at the Kingstown Technical School Gardens.

It is a pleasure to be able to record that of the twenty-five students to whom the Diploma was awarded last June, the great majority have since obtained employment or are further engaged in academical work, as

follows :-

One was awarded one of the Industrial Bursaries recently established by the Royal Commissioners for the Exhibition of 1851, value, £100 per year, and renewable for a second year; one was awarded a Special Research Scholarship and one a Research Studentship for the session 1911-12. Four have been appointed to positions in the British Thomson-Houston Electrical Engineering Works, Rugby; one has been appointed House Master at the Albert Agricultural College, Glasnevin; one as Technical Assistant in the Agricultural Branch of the Department; one has been appointed Assistant in the Department's Seed Testing Station; one as Science and Mathematical Master in the Christian Brothers' Day Trades' Preparatory School, Belfast; one as Science Master in the Blackrock Technical Institute; one as Science Mistress in the Royal School, Dungannon, and another as Science Mistress in the Secondary School, Newport; six as Instructors in Agriculture under different County Committees of Agriculture in Iroland. P. A. E. DOWLING,

Registrar.

# METROPOLITAN SCHOOL OF ART, DUBLIN.

Report of the Headmaster for the Session 1910-1911.

support of the accommendation for the control and a control and

The total number of students who attended the School during the Session 1910-11 was 426, of whom 204 attended the day, and 222 the evening classes; these included 196 males and 230 females. In the Personal Art Examinations, held under the Board of Education, the following number of successes were obtained in the subjects named.—

Freehand Drawing in Outlin	ie.				- 4
Model Drawing, .					
Drawing in Light and Shade	from a	Cast.			
Geometrical Drawing.			- 1		
Perspective	- 1	- 1		- 1	
Memory Drawing of Plant F	orm		-		
Drawing of Common Object	e from	Memorr			
Design, Stage 1	ii It out	DACILLOI 3	, .		
Design, Stage 2, .	•				
Design, Honours,					
Drawing from the Antique.					
Drawing from the Antique,					
Painting Ornament, .					
Painting from Still Life,					
Principles of Ornament,					
Modelling the Head from Life	b, .				
Modelling from Life, .					
Modelling from the Antique,					
Practical Plane and Solid Ge	ometry	, Stage	l		
Elementary Modelling (held	by the	Departm	agat of A	gri-	
culture and Technical Ins	steuctio	n for In	eland.)	٠.	
Drawing on the Blackboard		do.			

The total number of works submitted to the Board of Education for Teachers' Certificates and for the National Competition was 276; of these Teachers' Certificates and for the National Competition was 276; of these

The total number of works accopted for Certificates was 71, of which 63 were for the Art Class Teacher's Certificate, and 8 for the Art Master's Certificates, Groups I., II., and III.

In the NATIONAL COMPETTION the School was awarded two Gold Medals, three Silver Medals, four Bronze Medals, nine National Book Prizes, and

#### seventeen Commendations as below. Gold!Medals.—

Clarke, Harry, Designs for Stained Glass (Subject 23d). Power, Albert G., Model of a Figure from the Nude (Subject 19e).

### Silver Medals.-

Crilley, Margaret, Group in Oil Colours (Subject 15a). Quigly, Kathleen M., Design for Enamelled Metal Bowl and Stand (Subject 24a).

Slator, James S., Group in Oil Colours (Subject 15a).

#### Bronze Medals .-

Crilley, Margaret, Oil Painting of a Figure from the Nude (Subject 17c). Dawes, Bertha R., Designs for Lace Searf and Fichu (Subject 33c). Drury, Michael, Model of a Figure from the Nude (Subject 19c). Lang, Charlotte E., Design for Damasit Table-cloth (Subject 23c).

#### Book Prizes .-

Binsted, Augusta J., Study of Historic Styles of Ornament in Stained Glass (Subject 24a).

Cox, Olive M., Studies of Historic Styles of Ornament (Subject 22d).
Crilley, Margaret, Time Sketches of Figures from the Nude (Subject

Fox, Kathleon, Design for a Copper and Silver Mirror (Subject 24a), Garry, William, Design for Stamed Glass Panel (Subject 23d and 24a), Lang, Charlotte E., Design for Demants Tea-table olchi (Subject 23c), Design for Design for Silver S

#### Commended .-

Binsted, Augusta J., Monochrome Painting of a Bust from the Cast (Subject 16a). Bows. Francis. Monochrome Painting of a Figure from the Cast

Bowe, Francis, Monochrome Painting of a Figure from the Cast (Subject 16a). Cassidy, Arnes, Designs based on a Flowering Plant (Subject 14-22).

Cassidy, Agnes, Designs based on a Flowering Plant (Subject 14-22). Cox, Olive M., Design for Crochet Point Collar (Subject 23e). Crilley, Margaret, Oil Painting of a Head from Life (Subject 17b). Dawes, Bertha R., Design for Lace Flounce (Subject 23c).

Drury, Michael, Studies of Plant Form (Subject 10). Elvery, Eileen, Studies of Plant Form (Subject 10).

Eivery, Eileen, Studies of Plant Form (Subject 19). Evans, Helena, Studies of Historic Styles of Ornament (Subject 22d), Fox. Kathleen, Design for Lace Scarf (Subject 23c).

Fox, Kathleen, Design for Lace Scarf (Subject 23c). Gray, Hilda S., Design for Lace Chemisette (Subject 23c).

Kingston, Annie C., Design for Lace Flounce (Subject 23c). Kingston, Annie C., Design for Lace Pelerine and Collar (Subject 23c). Lakeman, Ernest, Study of Historic Styles of Ornament in Stained

Glass (Subject 24a).

Lamont, Jeannie, Studies of Plant Form (Subject 10).

Meacher, Denis, Studies of Plant Form (Subject 10).

Meagber, Denis, Studies of Plant Form (Subject 10).
Rhind, Ethel, Shaded Drawings of Heads and Hands from Life (Subject 804.)

The Metropolitan School of Art has taken this year a distinguished place in the National Art Competition. The awards to the work of the Students are not only numerous, but are of a high class, and constitute a record for the School. Out of the ten Gold Medals awarded for competition the School has obtained two, and thus sbares with one school in London the honour of the first place in the National Competition among Schools of Art. In the official reports of the competition the Examiners remark that "The female figure modelled by Albert Power, of Dublin Metropolitan School of Art for which the Gold Medal has been awarded, is full of charm and faithful observation," and as regards the designs for Stained Glass, the Examiners report that they "are pleased to see the quite remarkable advance that bas been made in this class of work. A Gold Medal has been awarded to Harry Clarke of Dublin Metropolitan School of Art, for a very remarkable effort in the highest class of Art, full of vigour and character, earnest feeling, richness of conception, and great resource in design and detail." Miss Kathleen Quigly's enamelled metal bowl, for which she was awarded a Silver Medal, is spoken of, "as a work which is remarkable for its broad and vigorous treatment and the massing of the design.

and regretis treatment and the massing of the design.

In the section of pointing, the Examiners, in speaking of the Silver
Medal Still Life groups by Miss Crilley and Mr. J. Slator, say that these
works "are large in design, simple in treatment, and portraying fine objects
suitable as excrease in still life posiniting."

In the sections of lace, crochet, and damask designing, there has been a noted improvement, in the last session; ten awards including Medals and Book Prizes, were obtained for this class of work, by the students of this School. Under the Local Prize Scheme for Session 1919-1911 prizes were

awarded as follows :-

#### I .- JUNIOR SECTION.

For the three students who gained the highest marks in the Junior Section (Day Class)-Alice Garland, Ethel Quigly, Phyllis Wilson. For the three students who gained the highest marks in the Junior Section (Evening Class)-Kathleen G. Booth, Michael O'Brien, Wm. J.

On completion of Art Class Teachers' Certificate-Ernest Corr. Physics

On completion of Irish Secondary Teachers' Drawing Certificate-Marjorie Findlater, Gladys Martin, William Smith,

#### H .- DESIGN SECTION.

For the best sets of studies of Plants chosen with a view to and executed with appreciation of their decorative possibilities-Michael Drury, lat : Eileen Elvery and Marjoric Findlater, 2nd, equal. For the best set of Historical Studies in preparation for Design-Olive

Cox. For the best set of Designs for given subjects-Harry Clarke. For Designs such as are required for Certificate Works, adapted to the technical requirements of various materials-Mary Lynch, 1st; Ernest

Corr. 2nd. For Designs for Lace—Bertha Dawes, 1st; Annie Kingston, 2nd. For Miscellaneous Designs adapted to the technical requirements of

various materials, etc.—Charlotte Lang, 1st; Wm. D. Smith, 2nd. For Interior Decoration—Wm. D. Smith. For the best set of notes and sketches in connection with Advanced

Design Lectures—Jennie FitzHarris. For the best set of notes and sketches in connection with the Elementary Design Lectures-Dorothy Acason.

## III .- ARCHITECTURAY, SUCTION.

Drawings to scale of the Classic Orders-Stephen C. Poole,

IV .- DRAWING AND PAINTING SECTION. For the best painting of a Figure subject from Irish History, Legend,

Romance, etc., suitable for application as decoration for some Irish Public Building-Harry Clarke, Ist; Ernest Lakeman, 2nd.

For painting of the full length nude figure from Life-James Slator.

For painting of a Head from Life—Margaret Crilley. For extremities from Life-Ethel Rhind.

For Time studies from the full length figure—James Slator.

For Anatomical studies and notes—Madeline D'Arcy. For painting of an Antique Figure—Francis Bowe,

For painting of a Head from an approved east—Augusta Binsted. For drawing of an Antique Figure—Roddice Day. Memory Drawings of Antique Figure—Roddice Day.

Drawings of a Head, Hand, and Foot, from approved casts—Dorothy Wilson.

Painting of an Interior-Kathleen Fox. Painting of a Group of Still Life in Oil Colours-Margaret Crilley and

James Slator, equal. Painting of a Group of Still Life, in Water Colours-Katherine Curtis,

#### V .-- MODELLING AND SCULPTURE SECTION.

Modelled Figure from Life (in the round)—Michael Drury.
Model of a Head from Life (in the round)—Albert Power.
Model of a Plant from Nature, etc.—Una Duncan and Ethel Stopford,
equal.

Modelled monthly Designs-James O'Brien,

## VI.—CRAFT CLASSES.

Metal Work—Kathleen Fox. Enamelling and Metal Work combined—Kathleen Quigly. Stained Glass—Harry Clarke. Leather—Jennie FitzHarris. Gesso Work—Mary Lynch.

Count Plunkett, Director of the National Museum, for the third time, kindly offered two prizes for the best sets of studies from objects and examples of applied art in the Museum. The first prize in this competition has been awarded to Miss Heldena Evars for a set of studies of historic embroideries, and the second prize to Miss Annie Holland, for a set of decorative lettering of various periods.

The following Teacherships in Training. Art Scholarships and Silverships (Apprendict) Scholarships were renewed and awarded by the Department during the Session 1910-11:—

Teacherships-in-Training—North O'Kelly, Kathleen Quigly and James Slator (renewed).

Art Scholarships—Margaret Crilley (renewed), James J. O'Brien

(Modelling), awarded, and Harry Clarke (Stained Glass) awarded.

Silversmiths' (Apprentice) Scholarships—Ralph Anderson, Michael
Dunne, Wm. Phelan and Wm. Redfern (renewed).

Twenty-one Silversmiths' Apprentices attended the School for instruction in drawing and design as applied to their trade, whose progress was highly satisfactory.

The Branchardier Trust Scholarships for Lace and Crochet designing were awarded to Miss Olive Cox, and Miss Lizzie Conlon, who attended the School for instruction in these subjects. Their attendance and progress in drawing and designing were very satisfactory.

The SCHMER COURSE of Art Instruction for Teachers of Secondary Schools was held at the School during the month of July last, and was stiended by seventy-size Teachers. The Classes were under the superscription of the Course of the Schools of the Schools of the Schools of the July Pewer, Mrs. Bettern, Mrs. Jacobs, Mrs. Enzowene, Mrs. Stephen, O'Kelly, Miss Crilley, and Mr. Sattor. These classes were highly accessful, as a growed by the innistry and undoubted progress of the students, who as growed by the innistry and undoubted progress of the students, who are growed by the misster year was a superscription of the students, who improvement of their art knowledge, and for the experiment they gained in methods of Art teaching.

The Department's Inspector, Mr. Patrick O'Sullivan, A.R.C.A., held an examination in Elementary Modelling and in Blackboard Drawing for the teachers attending the Summer Course.

Landscape Classes were conducted during the month of July by Mr. George Lynes, when the seventeen students who attended the classes made many interesting studies and sketches of buildings and scenes in and around Dublin and the District.

At the Art Industries Exhibition of the Royal Dublin Society

twenty-five prizes were obtained by the students of the School for designs for Lace, Crochet, Metal Work, Enamelling, Stained Glass, Illuminating,

In the Competition for the Taylor Art Prizes three students of the School were successful, viz.:—Miss Caroline Steen, who was awarded a £20 prize for a painted composition; Mr. L. Whelan, who obtained a £10 prize : and Mr. P. Tuchy, who obtained two £5 prizes.

A new class in the subject of WOODCARVING has been formed at the School, which meets two days in the week, under the direction of Mr. A. Lang. It is well attended, and promises to be of great use to the students, and especially to those who are obliged to have a knowledge of the

subject when applying for positions as Art teachers. " During the months of April and May last many of the students were

engaged in the illumination of the Address to Her Majesty the Queen from the Women of Ireland, on the occasion of the Royal Visit to Ireland. The School was entrusted with the designing and illuminating of this important work by Her Excellency the Countess of Aberdeen and the Committee. The Address consisted of thirteen pages of illuminated decoration and lettering, and was designed in the Irish Celtic style of ornament. It is not too much to say that the book has been highly appreciated by Their Majesties the King and Queen, by Lady Aberdeen and her Committee, and has been admired by those who have seen it for its design and beauty of workmanship. I may say that we, at the Metropolitan School of Art. feel grateful that we have been allowed to do this important work, as it afforded us an opportunity of not only proving that our students can be useful in a practical way, but also of proving that the art of Irish illumination is not extinct, but on the contrary, is at present in a healthy and vigorous condition.

During the past session Mr. Orpen has offered prizes for pictorial compositions, which have been competed for by many of the students of the Life Classes, and a good deal of promising and interesting work bas been

produced.

The Headmaster gave a series of lectures on the colour decoration of public buildings, the lectures being illustrated by coloured lantern slides and diagrams, from many important historical palaces, cathedrals, and churches, and from other examples of decorative colouring.

I am pleased to say that we now appear to be within measurable distance of baving the proposed new accommodation for our Craft Classes, The plans have been prepared and approved, and we hope the buildings will

he ready for the beginning of the next session. The Annual Exhibition of the Students' works was held during the

satisfactory position which the School continues to hold,

Christmas vacation, and was well attended by the public, I have to thank Mr. Luke, and all the members of the teaching staff, and also Mr. Tilly, the Registrar, for their able and willing assistance, given me at all times, which has largely contributed to the efficient and

JAMES WARD,

Head Master.

SUMMARY OF THE DEPARTMENT'S ACTION IN CONNECTION WITH COMPLAINTS AS TO RATES CHARGED BY CARRYING COMPANIES FOR THE CONVEYANCE OF MERCHANDISE.

Complaint which was included in the Ninth Annual General Report of the Department, and in regard to which action was completed since the preparation of the Summary in the Appendices to the Tenth Annual General Report.

GERMY SOUTHERN AND WESTERN RAILWAY Co., 28th May 1000.— That while the rate for the conveyance of ceam from Bullytoology to Guildford, wie Dublin and Holybead and wie Ronalere and Eishguard, was 58. day even, the rate wie Cork and Flahguard was 4s. 8d. per curt. On the 25th April, 1911, the rate of 4s. 3d. per cut. was made to apply wie Cork and Fishguard.

Complaint received previous to the 30th June, 1910, in respect of which action was not completed when included in the Summary printed in the Appendices to the Teuth Annual General Report.

GREAT SOUTHERN AND WESTERN RAILWAY CO. AND OTHER COMPANIES.

24th September, 1909, and 1st November, 1909.—That the rates for the conveyance of live poultry from Newmarkst, C. Cerk, to Barry Dock, Cardiff, Newport (Monnouth) and Brynmawr were excessive. Batts of 68. 85 per cevt. Company's Riski, and Sa per cevt. Owner's Risk, ower fixed to Barry Dock. The former rates were 98. 46, per cevt. Company's Risk and Sa. 10d. per cert. Owner's Risk. The Companies Company's Risk and Sa. 10d. per cert. Owner's Risk. were fixed to the company's Risk and Sa. 10d. per cevt. Owner's Risk were fixed to Brynmawr, the former rates being 98. 4d.

Complaints received during the period 1st July, 1910, to 30th June, 1911.

MIDLAND GREAT WESTERN RAILWAY OF IRELAND CO., GREAT NORTHERN RAILWAY CO. (IRELAND) AND OTHER CONTANESS, 6th July, 1810.—That the rates for the conveyance of butter from Killeshandra to Belfart,

Leith, London, Southport and Wigan were excessive.

A through rate of 19s. 8d. per ton was put in operation for the con-

per cwt., C.R., and 5s. 10d. per cwt., O.R.

regumes of butter from Killeshandra to Beliest, the former rate being 23s. 9d. No reductions have been effected in the rates to Leith, London, Southport and Wigner.

Great Nobethern Railway Co. (Iritland), London and Nobethern

Westers Railway Co., 9th July, 1910.—That the charge—£17s, 2d, made for the conveyance of a consignment of fireproof ceiling slabs sent from London to Cookstown was excessive, the weight of the consignment being only 11 cwt. 1 qr., and its value £2 6s.

The Department communicated with the Companies, who, however, did not see their way to reduce the charge. The charge was at the Class I rate, 48s. 4d. per ton.

MIDLAND GRHAF WESTERN RAILWAY OF IRHLAND Co., 12th July, 1910.

—That the rate for the conveyance of sulphate of copper from Dublin to Ballinrobe had been increased from 18s. 9d. per ton. (the rate charged in 1809) to 24s. 6d. per ton.

an 1999) to 24s. 6d. per ton. Temporary reduced rates had been in force during the years 1997, 1908 and 1909 for the carriage over the lines of the Irish Railway Companies of sulphate of copper intended for spraying purposes, but were not renewed in 1910. The Department communicated with the Companies as to the question of putting these rates in operation in the year 1910. The Companies, however, were not prepared to renew the rates.

(1) GREAT SOUTHERS AND WRITTEN TAXIVAY CO., MIGHAND GREAT WITTEN ALLOWS PER HAND, CA. FOR DIFFER AND SOUTH EXAMINATION AND PER HAND CO., AND DIFFER AND SOUTH EXAMINATION OF THE ADMINISTRATION OF THE

(1) The Department communicated with the Companies concerned, who did not, however, see their way to arrange for the issue of rates inclusive of cartage.

(2) The Greek Northern Railway Co. and the County Dougol. Railways Joint Committee arranged to charge Glean I instead of Gleas I rates for the traffic. The Midfland Great Western Railway Company reduced the retes from Class 3 to Glean I from Dublin to all stations are reduced the rates from Class 3 to Glean I from Dublin to all stations and Dublin Class I return Dublin to all stations are reduced the rate of the Class I rates from Dublin to all stations on their line except Westerd, Waterford, New Ross and Palace East. The Great Seuthern and Western Railway Company Company

(3) On inquiry it was found that the Midlend Great Western Railway Company had issued Class 4 rates for the traffic from Dublin to some thirty of the principal stations on their line, and were prepared to the contract of the principal stations on their line, and were prepared cated with the Great Southern and Western Badiway Company in the matter, but the Company were not prepared to make any reduction in the rates.

GREAT SOUTHERN AND WISSTERN FAILWAY CO., LONDON AND NORTH WISSTERN RAILWAY CO., NORTHE STATPONDARIEM RAILWAY CO., 3rd August of 1910.—That a charge of ½d. per lb. was made for the carriage of butter from Charleville to Sudduy mear Dorby by passenger train service, although a rate of ½d. per lb. was in force from Charleville to places beyond Sudduy.

The Department had inquiry made in the matter. It appeared that a rate of \( \frac{1}{2}d. \) per lb. was in operation from Irish stations to five or is: stations (which were competitive) on the North Statfordshire line. To other stations on the line the rate was \( \frac{3}{2}d. \) per lb. The matter is receiving attention.

Gerra Southern and Wissters Raliway Co., 13th August, 1910. 23rd August, 1910.—That the rates—14s. 8d, 21s. 10d, 19s. 7d, and 12s. 8d. per ton—quoted for the conveyance of crab apples from Cabin, Carlow, Kilkenny and Tipperray respectively to Cork were excessive. Reduced rates as follows were fixed, to remain in force until the end of 1910:—

The reduced rates were re-issued for the season of 1911, and the rate from Kilkenny was reduced to 15s. 8d. per ton for the season. Dublin and South Eastern Railway Co., Great Western Railway Co., 17th August, 1910.—That the rates for the conveyance of dead meat

from Macmine to London were excessive.

GREAT SOUTHERN AND WESTERN RAILWAY CO., 24th August, 1910.— Thas, while new milk was formerly carried from Tailow to Dublin in any quantity at a rate of 14, per gallon, a minimum of 12 gallons had been charged for since the rate was reduced to 3d. per gallon, thus increasing the charges for senders of only 5 or 6 gallons per day.

It appeared that the minimum of 12 gallons had always applied to the conveyance of new milk, but that, in error, this minimum had not been charged for at Tullow. The error was discovered on the rate to Dublin being reduced from ld. to \$\frac{1}{2}\text{d}\$, per gallon.

LONDONDERRY AND LOUGH SWILLY RALLWAY CO. AND OTHER COMPANIES, 9th September, 1910.—That the charges made for the conveyance of fish (herrings and ray) from Buncrans to Manchester and from Moville to Liverpool were oxcessive.

The question of baving reduced rates fixed is receiving attention.

The question of baving reduced rates fixed is receiving attention.

GREAT NORTHERN RAILWAY CO. (IRELAND), GREAT SOUTHERN AND

WISSERS RAILWAY CO. 16th September, 1910.—That the Great Southern and Western Railway Co. had not compiled with a request to quote a rate for the conveyance of cured herrings from Howth to Limerick. A through rate of 18t, per ton for oured herrings in 6 ton lost, station to station, at Gowner's Rick, was put into operation as a trial. The rate was 23s, per ton, station to station.

Great Southern and Western Railway Co. and other Companies, 15th September, 1910.—That the charges made for the conveyance of butter from Lixnaw and from Waterford to St. Leonards-on-Sea were excessive.

The question of reduced charges is receiving attention.

Great Southern and Western Ballway Co., Great North of Scotland Railway Co., 17th September, 1910.—That the charges made for the conveyance of certain consignments of butter by passenger train service from Charleville to Ballater were excessive.

The Companies were unable to trace the consignments in respect of which complaint was made. Complainants were asked to furnish the railway receipts for the consignments. The receipts, however, were not supplied.

GREAT SOUTHERN AND WESTERN RAILWAY Co., GREAT NORTHERN BAILWAY Co. (IRELAND), 21st September, 1910.—That a through rate was not in operation for the conveyance of eggs from Foynes to Belfast via Dublin.

Through rates of 51s. 10d. per ton, Company's Risk, and 45s. per ton, Ownce's Risk, station to station, were fixed for the traffic, the rates to remain in operation for twelve months.

GREAT NORTHERN RAILWAY CO. (IRBLAND), GREAT SOUTHERN AND WESTERN RAILWAY CO., 22nd September, 1910.—That the rate—40s. per ton—for the conveyance of butter by goods train service from Dungamon to Cork was excessive.

The rate was reduced to 37s. 6d. per ton.

GREAT NORMIGHS RAILWAY CO. (BREAND), BER OF MAS STREAM PACKET CO.; 2747M September, 1910—That there was no through rate participation of the participation o

Great Southern and Western Railway Co., 26th September, 1910.

—That head rates were not in operation for the conveyance of live ples

from Cahireiveen to Birmingham.

The Company stated that there was a truck rate of £8 4s. 6d. for the traffic between the places and that the traffic was usually forwarded at that figure. The Company added that they did not see the necessity for head rates.

DUBLIN AND SOUTH EASTERN RAILWAY CO. AND OTHER COMPANIES, 5th October, 1910.—That the charge—9s. 3d.—made for the conveyance of a consignment of moss weighing 2 cwt. 3 qrs. from Rathdrum to Nottingham was excessive.

The Department learned on inquiry that the Companies concerned could not see their way to put reduced rate in operation for goods train service.

COUNTY DONBOAL RAILWAYS JOINT COMMITTEE, GREAT NORTHERN RAILWAY Co. (IBBLAND), 29th October, 1910.—That charges amounting to £2 16s. 1d. had been made for the conveyance from Glenties to Cookstown of 20 sheep.

The Department communicated with the Great Northern Railway

Company in the matter, and instructions were given for a refund of 8s, 3d.

LONDON AND NORTH WESTHEN RAILWAY CO., GREAT NORTHERN RAILWAY CO. (IRELAND), 31st October, 1910.—That the charge of 1s. 6d. made for the carriage from London to Lisnashez of a parcel of garden

seed, the weight of which was 8 lbs., was excessive.

It appeared on linquiry that the parcel was charged for as weighing 10 lbs. The cost of carriage from Euston Station to Lienasicas was 1s., and 6d. was paid out by the contracting Railway Company in respect of carriage in London. For a parcel not exceeding 8 lbs. in weight the

charge for conveyance from Euston Station to Lisnaskes would be 10d.

MIDLAND GREAT WESTMEN RAILWAY OF IRELAND CO., 2nd November,
10D.—That the rates—75s. 5d. per ton, Company's Risk, and 60s. per
ton, Owner's Risk—for the conveyance of eggs from Clifden, Comp

Galway, to Manchester were excessive.

Inquiry was made and the Department were informed that the Companies concerned would not agree to a reduction.

Dublin and South Eastern Railway Co., 4th November, 1910.— That the charge—33‡ per cent, added to the goods train charge—made for the convoyance of fat catele by passenger train from Dublin to Macmine was excessive.

anacmne was excessive.

It appeared that in two instances complainant was charged for the conveyance of fat cattle by passenger train 32\frac{1}{2} per cent. instead of 25 per cent. in addition to the goods train rate. The difference was refunded.

MIDLAND GREAT WISTERN RAILWAY OF IRELAND CO., GREAT SOUTHERN AND WESTERN RAILWAY CO. AND OTHER COMPANIES, 17th November, 1910.—That the rate for the conveyance of dead poultry from Athlone to Bristol was excessive.

After correspondence the rate for the traffic by passenger train service was reduced from 5s. 10d. to 5s. per cwt. at Owner's Risk.

DUBLIN AND SOUTH EASTERN RAILWAY Co., 17th November, 1910 .--That the rates for the carriage of holly from Rathdrum to Nottingham should be reduced.

It appeared on inquiry that there were no through goods rates in operation between Rathdrum and Nottingham. The Railway Company were, however, willing to apply the rates in force for the traffic from Wicklow to any consignments of holly that might pass between the places. These rates were : holly in cases, crates or hampers, 85s. 10d. per ton, not so packed 113s. 4d. per ton.

GREAT SOUTHERN AND WESTERN RAILWAY CO. AND OTHER COMPANIES, 19th November, 1910.—That a charge of 3s. 2d. had been made for the conveyance of a sample keg of butter from Devon Road to Worksop. It appeared on inquiry that the weight of the consignment was 3 qrs. 14 lbs., and that the charge was made up as follows :- Is., a special charge for the carriage of packages not exceeding 1 cwt, in weight from Devon Road to North Wall, and 2s. 2d., the charge under the scale for small parcels, for conveyance from Dublin to Worksop.

GREAT NORTHERN RAILWAY CO. (IRELAND) AND BELFAST AND COUNTY Down Railway Co., 23rd November, 1910; 18th February, 1911; 20th May, 1911.—That as a result of competition between the Great Northern Railway Company (Ireland) and the Belfast and County Down Railway Company considerable reductions had been effected in the rates for the conveyance of goods between Castlewellan and Belfast, and that, as a consequence, much injury was being inflicted on traders, etc., in Dundrum and the surrounding districts and on traders in Banbridge.

After full investigation had been made by the Department in the matter it did not appear that the case was one which they should take up,

GREAT SOUTHERN AND WESTERN RAILWAY CO., GREAT NORTHERN RAILWAY CO. (IRELAND), LONDON AND NORTH WESTERN RAILWAY CO., CITY OF DUBLIN STRAMPACKET Co., 23rd November, 1910.-That through rates for the conveyance of horses from Nenagh to Belfast and other northern towns, and of sheep from Nenagh to Liverpool, were not in operation.

Through rates were, it appeared, in force for the conveyance of horses from Nenagh to Armagh, Ballybay, Belfast, Clones, Cookstown, Drogheda, Dungannon and Laytown, and the Great Southern and Western Railway Company were prepared to consider the question of arranging through rates to any other Northern stations to which such rates might be required.

There was a through rate of £5 6s, per truck in operation for the conveyance of sheep from Nenagh to Liverpool.

Midland Great Western Railway of Ireland Co., Great Southern AND WESTERN RAILWAY Co., 23rd November, 1910,-That the rate-65s. per ton, Owner's Risk,-for the conveyance of eggs from Claremorris to London was excessive. The Department communicated with the Midland Great Western

Railway Company and the Great Southern and Western Railway Company in the matter. The question was submitted to a meeting of the associated Railway and Steamship Companies interested, who declined to agree to any reduction in the existing figure.

MIDLAND GREAT WISSTERN RAILWAY OF IRELAND Co., LAIRD LINE, LIMITED, G. & J. BURNS, LIMITED, NORTH BRITISH RAILWAY CO., Caledonian Railway Co., 1st December, 1910.—That through rates were not in operation for the conveyance of eggs from Westport to Bellshill, Scotland.

The Department communicated in the matter with the Railway Companies concerned, and with the Scotch and Irish Traffic Conference. The Conference did not see their way to arrange through rates between the places. They stated that no saving in the total cost of conveyance would be effected by the adoption of through rates, nor would traders obtain any advantage which they did not already possess.

G. & J. Burns, Limited, Laind Line, Limited, 5th January, 1911.— That the rate for the conveyance of vegetables from Dublin to Glasgow was excessive.
The Companies were not prepared to reduce the rate for the traffic.

Great Southern and Western Railway Co., 23rd January, 1911;
Sth February, 1911.—That rates for the convoyance of butter in 2-ton lots from Brurce, Clonnel, Cork, Knocklong, Limerick, Listowol, Lixnaw,

Jots from Bruree, Clommel, Cork, Knecklong, Limerick, Listowel, Lixnaw, Newcastle West and Trable to Cardiff were not in operation.
The Department were informed by the Great Southern and Western Railway Cempany that the question had been considered by the Companies ceneerined. The Companies were not prepared to make any reduction

in the existing rates, which were stated to be exceptional rates for the traffic when sent in small or large consignments.

GREAT SOUTHERN AND WESTERN RAILWAY CO., 30th January, 1911.

That the rate for the conveyance of eggs from Foynes to Duhlin was

excessive.

It appeared that the Company were not prepared to reduce the rate,
32s. 11d. per ton—station to station, which they considered reasonable.

LONDONDERRY AND LOUGH SWILLY RAHLWAY Co., 3rd February, 1911.

—That the charges made for the convoyance of empty fish boxes from Manchester to Buncrana were excessive.

The Department communicated with the Company in the matter, and were informed that a through rate of 1s. 2d. per cwt. had heen arranged for the traffic.

for the traffic.

Great Southern and Western Railway Co., 14th February, 1911.

—That the rate—3d, per gallon—charged for the conveyance of new

milk from Tipperary to Paddington was excessive.

A rate of 2<sup>3</sup>d. per gallon was fixed for the conveyance of the traffic at Owner's Risk, minimum as for 12 gallons.

at Owner's Risk, minimum as for 12 gallons.

Midland Railway (Nowthern Counties Committee), 22nd February, 1911.—That through rates were not in operation for the conveyance

of live stock from Limavady to Cross-Channel stations.

The Committee stated that there were no through rates in force for the conveyance of cattle from any of their stations via Londonderry, and they did not see that each rate.

and they did not see that such rates would he of any advantage.

It was further stated that the rehooking at Londonderry did not cause any inconvenience as the owners had to arrange for the driving of the cattle from the Railway stations to the steamers.

MIDLAND RAILWAY (NORTHERN COUNTIES COMMITTEE), 22nd February, 1911.—That an arrangement under which cattle had heen convoyed from Antrim Fair to Limavady by passenger train at goods train rates had been discontinued.

The Department had inquiry made in the matter, and it appeared that, though some consignments had been conveyed by passenger train at goods train rates, the Northern Counties Committee were not prepared in future to forego the increased charge usual when a passenger train service was required.

Train service was required.

Dublin and South Eastern Railway Co., London and North Western Railway Co., 3rd March, 1911.—That the rate charged for

the conveyance of oysters from Gorey to Manchester was excessive.

The Department had inquiries made in the matter. The rate for the
traffic was reduced from 4s. 3d. to 3s. 6d, per cut, minimum I owt, and
the reduced rate was applied to the consignment in connection with
which the cemplaint was made.

COUNTY DONEGAL RAILWAYS JOINT COMMITTER AND OTHER COMPANIES 11th March, 1911.—That through rates were not in operation for the conveyance of ages from Deposit to Edishursch

conveyance of eggs from Donegal to Edinburgh.

Through rates were not in force for goods traffic from Donegal or other, places in the North of Ireland to Edinburgh, and it did not appear that

all the Companies concerned would agree to such rates being put into operation.

GREAT NORTH OF SCOTLAND RAILWAY CO. AND OTHER COMPANIES, 14th March, 1911.—That the charges amounting to £5 3s. 11d., made

that March, 1911.—That the charges amounting to £5 3s. 11d., made for the conveyance of a bull from Old Meldrum, Aberdeenshire, to Castletownroche, Co. Cork, were excessive.

It appeared on inquiry that the charges made were in accordance with the regular scale. By order of the consignor the bull had been carried in a separate truck from Old Meldrum to Glasgow.

Whet Clare Railway Co., Great Southern and Western Railway Co., Unland Great Western Railway of Ireland Co., 16th March, 1911.—That the charges made for the convoyance of cabbage plants from Miltown Malbay to Clifden were excessive.

It appeared that there were no through rates in force between the places, and that the charges amounted to about 34s, per ton. The placest communicated with the Companies concerned, and through rates of 32s, per ton, station to station, at Company's Risk, and 27s. 8d. per ton, station to station, at Owne's Risk, were fixed for the traffic.

Great Southern and Western Railway Co. and other Companies, 22nd March, 1911.—That the rate—102s, per ton—charged for the convoyance of dead turkeys from Tralee to Blackburn was excessive.

It appeared that the rate by goods train service was 98s. 8d. per ton. The Department communicated in the matter with the Great Southern and Western Company and a rate of 87s. 6d. per ton, carted, was fixed for the conveyance of dead poultry by goods train service between the places wiz Dublin. Waterford: or Cork.

GREAT SOUTHERN AND WESTERN RAILWAY Co., 29th March, 1911.— That a charge of £1 was made for the conveyance between Amiens Street and Kingsbridge of two bulls consigned from Kilcool to Cork.

The Department communicated in the matter with the Railway Company, and were informed that the charge made was for sending a special engine, van and guard to Amiens Street to convey the bulls to Kingsbridge and connect with the Company's train to Cork.

Great Southern and Western Railway Co., 31st March, 1911.— That the Owner's Risk rate—56s. Sd. per ton—for the convoyance of eggs from Roseres to London was excessive.

The Company were not prepared to take action with a view to reduce the rate.

GRIMAT SOUTHERN AND WISSTERN RAILWAY CO., 181 April, 1911.— That the rates for the convoyance of early potatoes from Youghal to Buttowant, Charleville, Cork, Fermoy, Kanturk, Killarney, Limerick, Mercoom, Mallow, Millstreet and Newmarket; from Youghal to Distiot, Cardiff, Liverpod, Manchester and Swanses; and from Youghal to Dundes, Ediberthy, Glasgow and Perth were excessive.

Special rates for the season ended 31st July. 1911, were arranged from Youghal to Charleville, Cork, Fermoy, Kanturk, Killarney, Limerick, Mallow, Newmarket and Manchester, and temporary reduced rates to Liverpool and Glascow were made permanent.

GREAT SOUTHERN AND WESTERN RAILWAY Co., 5th May, 1911.-

That a charge of £1 14s. 11d. was made for the conveyance of two bulls from Kilmorna to Cahireiveen.

An overcharge of 1s. 11d. appeared to have been made as the result of a clerical error. The appeared was referred to the conveyance of two bulls from the conveyance of the conveyan

of a clerical error. The amount was refunded.

MIDLAND GREAT WISSTERN RAILWAY OF IRELAND CO., GREAT SOUTHERN

AND WESTERN RAILWAY CO. AND OTHER CONTANIES, 11th May, 1911.— That the rates for the conveyance of eggs from certain places in Ireland to Manchester were excessive.

The Companies concerned were not prepared to reduce the rates in force,

MIDLAND GREAT WESTERN RAILWAY OF IRELAND CO. AND OTHER COMPANIES, 17th May, 1911.—That the Owner's Risk rates for the conveyance of eggs from Masm. Cross to Heysham (44s. 2d, per ton) and to

Leeds (63s. 4d. per ton) were excessive.

The Companies concerned were not prepared to agree to the fixing of reduced rates.

Great Northern Railway Co. (Ireland), London and South Western Railway Co., 31st May, 1911.—That the rate—7s, per cwt., minimum 1 cwt.—charged for the conveyance of dead poultry from Lurgan to Bournemouth was excessing.

The Department communicated with the Companies in regard to the matter, and the rate for the traffic was reduced to 6s. 6d. per cwt. (Owner's Risk) minimum 1 cwt.

GBEAT NORTHERN RAILWAY Co. (IRELAND), 15th June, 1911.—That a charge of 1s. 11d. had been made for the conveyance of a basket containing 3 st. 5 lbs. of goosoberries from Newry to Belfax.

taining 3 st. 5 lbs. of gooseberries from Newry to Belfast.

It appeared on inquiry that if the fruit had been consigned at Owner's
Risk the charge would have been 1s.

Great Northern Railway Co. (Ireland), Messes, G. & J. Burns, Limited, Caledonian Railway Co., 15th June, 1911.—That charges amounting to 32s. had been made for the conveyance of two pigs in crates from Goragh Wood to Granton, Edinburgh.

On inquiry it appeared that the animals had been forwarded by passenger train, and that the charges were such as the Companies were entitled to make. Had the animals been conveyed by goods train service the total charge would have been considerably less.

Great Northern Railway Co. (Ireland), Belfast and County Down Railway Co., 15th June, 1911.—That the rate (12s. 6d. per ton) for the conveyance of cured herrings from Kilkeel to Belfast was excessive.

La appeared that it will assume the relating from Milleed to Newcastle by motor and theme by rail to Botton, Than Milleed to Newcastle by motor and theme by rail to Botton, Than Milleed to Revenuelle with the Companies as regards the question of a reduction in the story of the control of the results of the story of the results of the story of the results of the story of the results of the results of the story of the s

Gerat Southern and Western Railway Co., Great Normhern Railway Co. (Ireland), 20th June, 1911.—That the rate of 38s. 8d. per ton for the conveyance of apples intended for cider-making from Co. Armagh to Cork was excessive.

It appeared that a rate of 30s, per ton was in force for the conveyance of apples in bags from Portadown and Annaghamore to Cork.

SUMMARY OF INQUIRIES MADE BY THE DEPARTMENT IN RECARD TO COMPLAINTS RECEIVED RESPECTING DELAYS IN THE CONVEYANCE OF MERCHANDISE BY CARRYING COMPANIES AND DAMAGE TO CONSIGNMENTS DURING TRANSIT

Complaints received during the period 1st July, 1910, to 30th June, 1911.

CREAT CENTRAL RAILWAY Co., 22nd July, 1910.—That a consignment of 100 packages of butter, which had been shipped on the 18th July from Cork, and which arrived in London by the Creat Central Railway, was, on delivery, found to be very much soiled by coal dust, the dust having pene-

trated the boxes.

The Great Central Railway Co. stated that portion of the consignment had been loaded for conveyance in a fruit van which had ventilators along the side, near the bottom only, and that it was therefore not considered necessary to use sheets. The Company added that a claim of £10 made in respect of the damage had been paid.

Great Southern and Western Railway Co., 22nd July, 1910 .-(1) That five hoxes of butter forwarded on the 15th April, from Lizzards. Co. Cork, to a firm in Dublin were not delivered to consignees. (2) That two boxes of butter-portion of a consignment of six boxes-forwarded on the 14th May, from Lissarda, Co. Cork, to a firm in Dublin, were not

delivered to consignees.

(1) The Great Southern and Western Railway Co, expressed regret that the consignee's full address had been omitted from the invoice. The firm had more than one establishment in Dublin, and as a result of the omission referred to, the butter was delivered at a branch other than that for which it was intended. (2) The Great Southern and Western Co. stated that on the date on which the six boxes were forwarded to Dublin consignments of butter bearing the same marks, were consigned from Lissarda to the firm's branches in Calway and Ballina, and that two of the boxes for Dublin were sent to Galway in error and were delivered there. The Company added that had the boxes for the different branches of the firm been fully addressed there would have been no cause for complaint.

GREAT SOUTHERN AND WESTERN RAILWAY Co., 23rd July, 1910.-That two boxes of butter forwarded on the 15th July, from Abbeydorney Station and Kilmallock Station respectively, for one of the Department's Surprise Butter Competitions, were in a damaged condition when delivered at the Royal Dublin Society's premises, Ballsbridge, Dublin.

The Creat Southern and Western Railway Co, failed to ascertain how the damage complained of occurred.

GREAT SOUTHERN AND WESTERN RAILWAY CO.; LONDON AND NORTH Western Railway Co., 4th August, 1910.—That a consignment of 25 boxes of butter forwarded from Bruree, Co. Limerick, to London, was found on arrival at its destination on the 16th July, to be in a soft condition

from beat, and that the boxes were much soiled. Inquiries were made by the Department in regard to the matter, and it

was found that the carrying companies had offered payment of £2 10s. in respect of the damage, and that the consignors had agreed to accept this amount.

LONDON AND NORTH WESTERN RAILWAY Co.: (1) 6th August, 1910; 12th August, 1910; 13th August, 1910; (2) 9th August, 1910,-(1) That dead poultry forwarded from Ireland via the London and North Western Railway Co,'s route, to the Central Market, London, were not delivered until 7.36 a.m., and were then late for the market. (2) That poultry sent from Belmont and Gesshill (King's Co.) districts, via the London and North Western Company's route, to the Leadenhall Market, London, sometimes

arrived late for the market.

The Department communicated with the London and North Western Railway Co. in regard to the matters. It was stated that, for some time, the Broad Street train had been running rather late on occasions, but that steps had been taken by the Company with a view to secure a better working.

Geeat Southern and Western Railway Co.; Great Western Railway Co., 9th August, 1910.—That a box of butter—portion of a consignment of 40 boxes-forwarded on the 13th July from Waterford to London, was badly damaged in transit, and that a claim made in respect of the damage had not been met.

The Department were informed by the Great Western Railway Co. that a claim which had been made in respect of the damage had been met on the 10th August. Complainants subsequently stated that the matter

had been settled to their complete satisfaction. DUBLIN AND SOUTH EASTERN RAILWAY Co., 17th August, 1910.—That a sufficiently expeditious service was not afforded for the conveyance of dead mest forwarded from Macmine (Co. Wexford), viz Rosslare to Smith-

field, London. The Department were informed subsequently that complainant was forwarding the traffic via Dublin and Holyhead. Consignments were, bowever, again sent via Rosslare. The question of the transit is receiving attention.

Great Northern Railway Co. (Ibeland), 26th August, 1910 .-That eggs sent from Armagh to Manchester had been delivered in a damaged condition, and that the breakages principally occurred in consign-

ments ferwarded via Belfast. The Department communicated in the matter with the Great Northern Railway Co., by whom action was taken as to the careful handling of the

traffic at the Queen's Bridge Goods Station, Belfast, LANCASHURE AND YORKSHURE AND LONDON AND NORTH WESTERN RAILWAYS (Fleetwood Steamers); MIDLAND RAILWAY CO. OF ENGLAND (Heysham Steamers); 5th September, 1910.—That poultry which reached Belfast Quays after 8 p.m. would not be accepted for shipment on the

same night and had to wait over till the following night. The Department communicated with the Shipping Companies concerned, and were informed that the Companies could not see their way to make any alteration in regard to the closing hour for receiving the

Great Northern Railway Co. (Ireland) and Other Companies, 6th September, 1910.—That, on the delivery, at Little Sutton near Chester, of consignments of eggs forwarded from Omagh on the 11th July (1 case). 1st August (2 cases), 29th August (1 case), and 6th September (1 case), a considerable number of eggs were found to be broken in each consignment, and twenty eggs were missing from one of the cases,

Claims made in respect of the damage to three of the consignments were met by the carrying companies concerned. As regards the remaining consignment the Department were informed that the Liverpool carting agents of the Belfast Steamship Company had agreed to pay in respect

of the damage.

traffic.

CLYDE SHIPPING COMPANY; LONDON, BRIGHTON AND SOUTH COAST RAILWAY Co., 15th September, 1910.—That on the arrival at St. Leonardson-Sea of a case of eggs forwarded from Waterford, 57 eggs were found to be broken and 30 eggs were missing. The London, Brighton and South Coast Railway Co. stated that the

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case was delivered to all appearance in good condition, that a clear receipt was given at the time of delivery, and that no complaint had been received from the consignee in regard to the matter.

LONDON AND NORTH WESTERN RAILWAY Co., 22nd September, 1910.— That certain claims made on the London and North Western Railway Co., in respect of damage to consignments of eggs sent from Donegal to London had not been settled.

The Department had inquiry made in the matter The complainants subsequently informed the Department that the claims made had been

GREAT SOUTHERN AND WESTERN RAILWAY Co., 20th October, 1910.— That a box of oysten, which was forwarded on the 4th October from Oranmore to the Agents of the White Star Line at Queenstown for shipment on the SS. "Adriatic," on the 6th October, was not delivered to consigness in time for shipment.

The Department communicated with the Great Southern and Western Railway Co., who paid a claim in respect of the consignment. Steps were taken by the Company to secure the prompt delivery of any future similar consignments.

CORE AND MUSICERRY RAILWAY Co., 26th October, 1910.—That cans used for the conveyance of consignments of separated milk forwarded on the 1st and 6th August from Coachford to Castlemartyr were not returned

the iss and our nugation from contract to Custemarryr were not returned to Coxochrord until the first week in October. The Cork and Muskerry Railway Co. stated that the delay in the return of the empty cans was due to no arrangement having been made for payment for the transferring of the eans from the Great Southern and Western Railway Company's station at Cork to the Cork station of the Cork and

Muslorry Railway Co. Complainant was so informed.

Gerla Southern and Western Railway Co., 2nd November, 1910.—
That consignments, each consisting of 9 boxes of butter, forwarded on the lat August and 8th August, from Ardagh. Co. Limerick, via Dublin and Holyband to London, were not delivered until the 4th August and 11th

August respectively.
The Great Southern and Western Railway Co. stated that owing to the volume of traffic to be dealt with, the goods trains arrived at Kingsbridge semewhat late on the 2nd and 14th August, that the consignments were sent fewered to the London and North Western Railway Co. about 2 p.m. on the date, and that the delay so far as they were concerned was unavoidable.

GRIAG SOUTHERN AND WESTERN RAILWAY CO., 5th November, 1910.— This, although complainants bad made arrangements with a center for the conveyance to their premises of consignments of butter forwarded to them at Limerick Station, consignments were handed to the Railway Company's carter for delivery, and that inconvenience and delay had been thereby occasioned.

It appeared that the question of delivery by the Railway Company at the premises of the consignees or the making of an allowance in lieu of such delivery was involved.

The Railway Co. stated that the butter was carried as "Station for Station" rates, and that pirot to analgamation the Waterford, Limerick station "rates, and that pirot to analgamation the Waterford, Limerick star Western Railway Co. carted the traffic to consignees' premises free of charge. The Company also stated that they had never considered themselves bound to continue such free delivery, and held that it was purely a matter of grace for them to do so. They added that they had their own certific agents at Limerick, and, in the circumstances, were not bound to hand over the traffic to any other carries for delivery.

GREAT WESTERN RAILWAY Co., 9th November, 1910,—That certain claims made on the London and North Western Railway Co., in respect of

damage to consignments of eggs sent from Kanturk to London had not been settled.

An Officer of the Department inquired into the matter, and it was under-

stood that the claims were met.

LONDONDERRY AND LOUGH SWILLY RAILWAY Co., 11th November, 1910.—That the Board of Public Works had refused to sanction the

1910.—That the Board of Public Works had refused to sanction the alteration of the time of starting the second daily train from Burdonpor from 10.10 a.m. to 12.15 p.m. during the winter season, an alteration which was considered most desimble in the interests of the fishing industry. It appeared that the Burtonport Extension Railway was worked by the Londonderry and Lough Swilly Railway Oo, under an agreement with the

Tressary and the Beard of Works, by which they were bound to "run daily as ramy trains as will fully meet the requirements of the passenger and goods traffic from time to time." The Beard writesed their sametion to the alternation on the grounds that serious inconvenience to the passenger to the passenger of the property of the passenger of the

Swilly Railway Co., in regard to the question of running from Burtenport, at a suitable burt, a special train to meet the requirements of the fish traffic, during, say, Desember and January, and from the middle of May to the middle of June. The Cornapany stated that coessional specials could not be run on the short notice which those engaged in the fishing industry would be in a position to give.

The Department learned that the Londonderry and Lough Swilly Railway Co. had referred the matter to the Treasury for adjudication under the Treasury Agreement, and that the Treasury decision was to the effect that sufficient evidence had not been adduced to justify the alteration of the time table in the then existing circumstances.

CITY OF COME STRAM PACKETT CO., 17th November, 1916.—That a consignment of the poultry forwarded on the lat November from Cort wis the City of Cork Steam Packet Co.'s route to Liverpool was placed in an unprotected position on the main deck, with the result that out of a total of 355 goes and ducks, 45 were found to be deed when the consignment was The City of Cork Steam Packet Co. stated that the consignment was

carried in a position where ample protection was afforded, and where, having regard to the packing of the birds, freedom from mortality could best be secured. An Inspector of the Department learned that unsuitable crates had been used in the packing of the consignment.

DUBLIN AND SOUTH EASTERN RAILWAY CO., AND OTHER COMPANIES.

SUBJECT That consignments of goods forwarded from Emiscorthy to Newcastle-on-Tyne were damaged in transit, numerous

packages being smashed and the contents injured by dirt.

The Department brought the complaint under the notice of the Dublin and South Eastern Railway Co., who made inquiries in the matter and took action with a view to securing that due attention was paid to the handling of the goods.

Gerly Southers and Westerlar Railway Co.; London and North Western Railway Co. and other Companies, 19th November, 1910.— That a sample keg of butter forwarded on the 4th November from Devon Road Station, Co. Limerick, via Dublin and Holyhead, to Worksop did not reach it adestination until the 12th November.

The Great Southern and Western Railway Co, stated that the butter was handed to the London and North Western Railway Co, at North Wall on the 5th November. The London and North Western Railway Co, stated that the length of time occupied in transif from Dublin to Worksoy was due to exceptional causes, and they expressed a hope that no such time would be occupied on any future occasion.

CREAT SOUTHERN AND WESTERN RAILWAY Co., 28th November, 1910.—
That the Creat Southern and Western Railway Co. declined to accept
for conveyance, by the evening train from Charleville, milk traffic consigned to London via Fishcuard.

The Railway Co.regretted that they were unable to convey the traffic by the train—the Rosslare Express—as to do so would cause delay. The train, it appeared, was a fast passenger train, timed to reach Rosslare Harbour at 11.30 p.m. to connect with the night sailing for Fishguard.

MITLAND RALINAY CO. (NORTHERN COUNTIES CONSTITED), 2nd December, 1910.—That the Company had decided not to accept, after 11.15 a.m., perishable traffic for conveyance from Limaway to places of creat Errian, an arrangement which would make it impossible to fill orders for poultry on the date of receipt. Consignments could previously effect to the control of the con

nearest fact mysham or reservoid, or by the 8-10 in, cann for conveyance of Larne and Summer. With a view to neet the requirements of the Christmas traffic from Limavady, a wagon would, if necessary, be attached to the 3 pm. trust no connect with the 2.40 pm. trafit from Londonderry, up to and including the 19th December, but that on the 20th, 121st, 22nd, and 23rd December, the traffic would be forwarded by a special train for

perishables leaving Limavady at 2.35 p.m.

From a letter, dated the 24th January, 1911, from complainant, it appeared that the arrangements made by the Company had proved satisfactory.

Cork and Magnoom Direct Ralinway Co.; Ceray Squitzern and Western Ralinway Co. (Berland); Direct Ralinway Co. (Berland); Midland Ralinway Co. (Berland); Midland Ralinway Co. (Norminis Countries Committed), 13th December, 1910.—That four boxes of butter forwarded on 7th December, from Lissards, Co. Cork, to Carnocagh, Co. Antrim (Rathkenny Station), had not been delivered up to the evening of the 12th December.

On inquiry it appeared that the delay had occurred at Antiru station. The Midland Railway Co. (Northern Counties Committee) stated that the four boxes, not addressed, had arrived at Antiru Station (Crest Northern Railway) on the 10th December, mentiered. The invoice was not received (Northern Counties Committee) and forwarded to Eallymana, whose it was sent to Raithleany Station on the following morning.

West Clare Railway Co.; Creat Southern and Western Railway Co., 16th December, 1910, 6th April, 1911.—That delay in the conveyance of butter, forwarded from Kilrush to Cork, was occasioned by the refusal of the West Clare Railway Co. to accept consignments for conveyance by the train leaving Kilrush at 5.35 mm.

The Department communicated with the Companies concerned.

speaced that, with the exception of contiguments obtained in the Kilmini district, the butter purchased by complainants in the vicinity of Kilrah could be delivered at Kilrah station in time for conveyance by the 2.0° has tended at Kilrah station in time for conveyance by the 2.0° has the configuration of the 2.0° has the configuration of the the 2.0° has the configuration of the configuration of the reaching Cork early the following morning. Subsequently it was learned what consignanties sent by the 6.3° has the ring of the configuration of the c

GREAT SOUTHERN AND WESTERN RAILWAY Co., 16th January, 1911.— That consignments of coal forwarded in six-ton wagon loads from Limerick to Ballins, Killaloe, were found on arrival to be from 3 to 6 cwt. short in

each wagon.

The Great Southern and Western Railway Co. stated that occasional

tests of the weight of consignments had been made, and that there had been discrepancies as between the weight shown by the Company's machine at Limerick and that shown by the consignee's machine at Ballina. In the case of one consignment, which was kept under observation during conveyance, the weights respectively were 6 r. 0 c. 1 q. 16 lb., and 5 T. 18 C. 3 Q. 21 Ib.

From a letter subsequently received from complainant it appeared that the shortage was less marked.

MIDLAND GREAT WESTERN RAILWAY OF IRELAND CO.; LONDON AND NORTH WESTERN RAILWAY Co., 17th January, 1911 -(1) That in a consignment of eggs-consisting of 20 cases-sent on the 6th June from Loughrea to Golborne, one case was found on arrival to be badly damaged and was refused by consignee. (2) That two cases of eggs-portion of a consignment of 20 cases-forwarded on the 11th June from Loughrea to Golborne, were found on arrival to be badly damaged, and were refused by consignee,

(1) The Midland Great Western Railway Co. stated that two of the cases were found to be leaking when received from the sender at Loughrea. and that the case refused by consignee was salvaged by the London and North Western Railway Co. and the amount tendered to sender. The eggs were conveyed at Owner's Risk rate. (2) The Midland Great Western Railway Co. stated that the consignment was in apparently good order when handed to the London and North Western Railway Co. The London and North Western Railway Co, stated that they were unable to say where the damage occurred, that the cases refused by consigner were salvaged, and that the amount realised together with one-half the net loss was offered to consignor. The eggs were conveyed at Owner's Risk rate.

MIDLAND GREAT WESTERN RAILWAY OF IRELAND Co., 20th January, 1911.—That there were no arrangements for the delivery of stationery

-sent from Athboy-at Blanchardstown station. The Midland Great Western Railway Co. stated that Blanchardstown Station was a passenger station only, and had no accommodation for goods traffic, but that as the goods in question were not weighty, and could be handled and forwarded by passenger train, instructions had been given that consignments from Athboy to Blanchardstown should be carried by passenger train at a reduced rate of 1s. per cwt. at Owner's Risk, with a minimum charge of 6d. per consignment.

MIDIAND RAILWAY Co. (NORTHERN COUNTIES COMMITTEE), 24th January, 1911.—That the Company would not accept live fowl for conveyance from Limsvady to Glasgow via Londonderry by any train later than the 11.40 a.m. train, although the steamer for Glasgow rarely left Londonderry before 7 p.m.

The Company stated that on Mondays (Limavady market) a train, available for the conveyance of the traffic at goods train rates, left Limavady at 2.20 p.m., and that on other days consignments could be forwarded by a corresponding train which left Limavady at 11.35 a.m., or at passenger train rates, by the train leaving at 3 p.m.

MIDLAND GREAT WESTERN RAILWAY OF IRELAND Co., 26th January. 1911.—That the Railway Company's officials at Ballina Station marked consignments of eggs "leaking" and "open to pillage," whether such was the case or not. The complainant stated that he had one consignment which was marked "leaking" unpacked in the presence of a London and North Western Railway official, but did not find a single broken egg. The Department had inquiry made in the matter, but it did not appear that there had been any indiscriminate marking of consignments as

"leaking" or "open to pillage." MIDLAND GREAT WESTERN RAILWAY OF IRELAND Co., 31st January, 1911.—That a box of butter handed to the Company at Boyle Station on

the 5th December, for conveyance to Dublin for one of the Department's Surprise Butter Competitions, did not reach its destination until 6.39 p.m. on the 8th December, not having been forwarded from Boyle station until the 6th December, and being then despatched by goods train.

The Department communicated with the Company in the matter. The Company replied that the butter was consigned by goods train and expressed regret that through an oversight it was not forwarded from Boyle until the 6th.

GREAT SOUTHERN AND WESTERN RAILWAY CO.; LONDON AND NORTH WESTERN RAILWAY Co., 31st January, 1911, 1st and 3rd February, 1911.

-That in a half case of eggs forwarded from Bagenalstown via Dublin and Holyhead to Manchester, 54 eggs were found on delivery to be broken. Consignor, who was interviewed on behalf of the Department, stated that he had heard nothing as to the damage complained of; he therefore assumed that any claim made in the matter had been met. Consignment had been forwarded at Company's Risk rate.

MIDLAND GREAT WESTERN RAILWAY OF IRELAND CO.; CITY OF DUBLIN STRAM PACKET Co., 1st February, 1911.-That there were continual breakages in consignments of eggs forwarded by a trader in Galway to complainants at Manchester.

In May the consignor informed an Inspector of the Department that there had been an improvement in the transit and that very little breakage was then occurring.

GREAT WESTERN RAILWAY Co., 2nd February, 1911.-That a consignment of 12 hhd. eggs which were packed with good straw in a new long case specially made on consignor's premises was badly damaged in conveyance from Waterford to Birmingham.

The Department communicated with the Great Western Railway Co. in the matter, and a claim made in respect of the damage was met.

GREAT SOUTHERN AND WESTERN RAILWAY Co., 3rd February, 1911 .-That a 56 lb. box of butter forwarded on the 29th June, 1910, from Charleville to Blackpool by passenger train service at Owner's Risk rate, was lost in transit, and that a claim made in respect of the butter-£3 10s.was not met, the Railway Co. offering only half that amount in full settle-

ment. The Great Southern and Western Railway Co. were unable to prove delivery of the butter, and agreed to pay £3 in respect of the loss sustained. The offer was accepted by complainants.

LONDONDERRY AND LOUGH SWILLY RAILWAY CO.; MIDLAND RAILWAY (NORTHERN COUNTIES COMMITTES), 3rd February, 1911.—That of 20 burels of herrings forwarded on 1st February from Bunerana to Manchester, six were not delivered until 2.30 p.m. on the following day, being then late for market.

The Londonderry and Lough Swilly Co. stated that 14 of the barrels were forwarded by the 11.36 a.m. train from Buncrana, and that the other 6 barrels, which were not handed to them in time for that train, were for-

warded by the 12.30 p.m. train.

The Midland Co. (Northern Counties Committee) stated that the 14 boxes were despatched from Londonderry via Larne and Stranraer by a special train leaving at 2.30 p.m., and that the remaining 6 boxes, which were received too late for forwarding by this train, were despatched from Londonderry via Belfast by the 4 p.m. train.

GREAT WESTERN RAILWAY Co., 7th February, 1911.-That a package of eggs forwarded on the 4th February from Waterford to Handsworth. Birmingham, was badly damaged in transit and was in consequence refused by the consignee.

The Department communicated with the Great Western Railway Co. in the matter, and a claim in respect of the consignment was met.

February, 1911.-That 36 eggs were smashed and 42 cracked, during conveyance, in a consignment (two 6 hhd. cases) forwarded on 14th February from Ballymoney Station to Plumstead-Inquiry failed to show that the consignment received any rough handling

during conveyance. The eggs were apparently signed for by consignee

without remark.

Great Northern Railway Co. (Ireland), 17th February, 1911.-(1) That in two 6 hhd, cases of eggs sent on 18th January from Carrickmacross Railway Station to Dublin, it was found that on arrival 15 doz. of the eggs were broken or missing. (2) That in three 6 hhd. cases of eggs sent on 29th January from Cootehill to Dublin, it was found on arrival that 88 eggs were broken or missing.

(1 & 2). The Department communicated with the Railway Co. in the matter. A claim in respect of the damage to the consignments was met.

Great Southern and Western Railway Co., 20th February, 1911 .-That although a goods train left Foynes Railway Station at 4.30 p.m., consignments of eggs delivered at the station after 3 p.m. were held over until

the following day. The Great Southern and Western Railway Co. stated that they had had inquiries made in the matter, but they regretted that it could not be

arranged to accept goods for forwarding later than 3 p.m.

Great Northebn Railway Co. (Ireland), 23rd February, 1911 .-That an arrangement by which traders in butter and eggs in Pomeroy and Duagannon districts had been allowed to leave over their goods for a few hours or a day at the Great Northern Railway Company's stations had been discontinued by the Company.

The Railway Company stated that they had received a memorial from several butter and egg merchants attending Dungannon and other markets, suggesting that the Company should allow egg traffic to be delivered at certain stations to the order of the senders who would forward disposal instructions on the following day. The Company agreed to a trial of the proposal; the eggs to remain on their hands at Owner's Risk.

GRHAT SOUTHERN AND WESTERN RAILWAY Co., 2nd March, 1911 .-(1) That, in a case of honey forming part of a consignment forwarded from Ballyragget to Dublin, and received by consignees on the 16th February. 17 sections were found to be smashed. (2) That 24 sections of honey were badly damaged during conveyance in a case forwarded by passenger train service from Ballindine to Dublin and delivered on the 21st February;

The Department communicated with the Great Southern and Western Co, in regard to the consignments, and were informed: (1) that the case was conveyed at Owner's Risk, and that a claim in respect of the loss sustained had been accordingly declined; (2) that the consignment was received from the sender in a leaking condition, and was delivered in the same condition to the consignees.

MIDLAND GREAT WESTERN RAILWAY OF IRELAND Co., 9th March, 1911; 20th March, 1911.—(1) That consignments of eggs forwarded from Woodlawn to St. Helens on Wednesday, did not arrive until the Saturday following. It was stated that a consignment forwarded on Wednesday, the 1st March, was not delivered until Saturday afternoon, too late for that

week's market, and that a loss of 6d. per hhd. resulted. (2) That a consignment forwarded on the 14th March had not reached its

destination up to the 17th March.

The Department communicated with the Midland Great Western Railway Co. in regard to the conveyance of the consignments. (1) The Company stated that the consignment was hended to the City of Dublin Steam Packet Co. at noon on the 2nd March, and to the London and North Western Railway Co. on the 3rd March, and was delivered, the London and North Western Railway Co. stated, at 6 a.m. on the morning of the

4th March.

(2) The Company expressed regret that on the occasion their train was running late and did not reach North Wall in time for the shipment of the eggs by the moon boat on the 15th March. The eggs were shipped by the 7.30 n.m. boat.

The Department understand that the Company took steps to have the service improved.

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Minland Ginzar Westmark Ratioway or Binlands Co., 16th March, 1011—That, though arrangements had been made by complainant with the Station Master at Westport for the provision of a horse-box for the conveyance of a stabline from Westport to Catalibae by the 3 pm. tentil the Station for the Catalibae of the Station was considered to the station was one in which there was another stallion, the rount of which, as well as complainant, objected to the animals being placed in the same box. In consequence it was not possible to penade the complainant's horse at a show which was bring held at Catalibae on the

The Railway Co. stated that when applying for a horse-box to their agent at Westport, neither the complainant nor the owner of the other stallion stated that his animal was stallion, and it was assumed that the

two animals could be conveyed in one horse-hov.

MIDLAND GREAT WESTERN RALLWAY OF INTERAND CO., I LANDON AND NORTH WESTERN RALLWAY CO., 18th Morch, 1911.—That eggs sent from Althone on Saturday evenings to places in Ragland sie Holyhead were delayed in conveyance. The following were mentioned as possible instances: (1) That 10 cases forwarded on Saturday, the 11th February, to Liverpo), did not reach their destination until mid-day on the 14th February 100, did not reach their destination until mid-day on the 14th February to Liverpo), did not reach their destination until mid-day on the 14th February to Liverpo), did not reach their destination until mid-day on the 14th February to Liverpo), did not reach their destination until mid-day on the 14th February to Liverpo). He was a sense of the 15th February to Liverpool their day of the 15th February to Liverpool their day of the 15th February to Liverpool their day of the 15th February to Liverpool the 15th February to Liverpool the Liverpool the 15th February to Liverpool the 15th February

signment was handed to the London and North Western Railway Co. as North Wall in time for the Sunday boat, and that the Newcastle-on-Tyne consignment met with some delay, owing to exceptional causes, while in the hands of that Company. Arrangements were made by the Midland Great Western Co. to run a special train on Saturday evenings to eatch the Sunday sulfing from North Wall.

Complainants writing to the Department on the 4th August, stated that the defects in the service for consignments sent on Saturday evenings had been remedied.

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COUNTY DONEGAL RAILWAYS JOINT COMMITTEE; MIDLAND RAILWAY OF ENGLAND, 20th March, 1911.—That S cases of eggs forwarded on Saturday, the 11th March, from Donegal to London, were not delivered until the following Wednesday.

The Department communicated with the County Donegal Railways Joint Committee in regard to the transit of the consignment, and were informed that the consignment was delivered on the morning of Tuesday the 14th March, no delay in transit having occurred.

MIDLAND GRHAT WISTERN RAILWAY OF IRPLAND CO.; GREAT SOUTHERN AND WESTERN RAILWAY CO., 25th March, 1911.—That a consignment of \$4 pigs forwarded on the 13th December, 1910, from Ballyhaunis to Coris, did not reach their destination until the forenoon of the 15th December.

The Middand Great Western Co. stated that at the time they were very much pressed for wagons owing to exceptionally heavy goods and live stock traffic, that they were unable to despatch the special train for the Ballyhamis, pig fair from Ballyhamis until 4.45 p.m., and that the consignment in respect of which complaint was made reached Athlone at 7.35 p.m.

The Great Southern and Western Co. stated that the consignment was

transferred to them at Athlone after the night goods train had 16t, and that pigs were forwarded on the following day by passenger train from the pigs were forwarded on the following day by passenger train from Dublin to Cork on that date. The Company added that a more direct route for the trail would have been risk athlenny and Emnis—the consignment had been conveyed with Athlone and Festarlington at sender the consignment had been conveyed with Athlone and Festarlington at sender the sender of the s

MIDLAND GIRLAY WISSTRIM RALIWAY OF IRMAND CO., 19th April, 1911.— That eggs purchased at Moste Market (Thursday) and forwarded to Leek, were not delivered until Monday or Thesday, and that the service for the traffic would be improved if consignments were conveyed from Moste on Friday mornings by the Ballina or Galway goods train, thus reaching North Wall, Dublin, in time for mid-day boat.

The Department communicated with the Midland Great Western Co. in the matter. The Company carefully considered the question of stopping one of the trains at Moste on Friday mornings, but regretted that they could not see their way to do so.

MDDAARO GRIARY WISTERIAN RATIONAY OF JEMAAND Cc., GYTY OF DUBLIAN PERSONS (C), JEMNONA AND NORTH WISTERIN RATINAY CO., 200th April, 10 H.—Tima: 12 cases of eggs forwarded on the 11th April from Woodman, and the 10th April, 10th missing the Easter Market, and that, owing to the consignment not having been delivered on Thursday or Saturday, certain arrangements for line sale of the eggs had to be cancelled, with the

The Department communicated with the Midland Company in the matter. A claim made by the consignor was met.

Great Southern and Western Railway Co.; Midland Great Western Railway of Iriland Co., 25th April, 1911.—That a consignment of butter sent from Cork to Clifden was delayed in transit. The Department saked complainant to state the dates on which the consimment was forwarded and delivered. No reply was received.

G. and J. Burns, Limited ; Laird Line, Limited, 26th April, 1911.-

That the trade in vegetables from Dublin to Glasgow had decreased owing to defective arrangements for conveyance.

The Department communicated with the Companies and made inquiry in the matter. It appeared that the decrease in the traffic from Dublin was due to an increased supply being available in Scotland. The Companies stated that the consignments carried by them were conveyed with due expedition.

GREAT SOUTHERN AND WESTERN RAILWAY Co., 2nd May, 1911.— That a package of butter forwarded on the 21st April from Cork to Ballin-

robe, was not delivered until the 25th April.

The Great Southern and Western Railway Co, stated that the delay was due to the connections at Emnis and Claermorris not having been made. The Company also informed the Department that they were putting on a new goods train between Ennis and Athenry, which would considerably improve the service for traffic between Cork and stations west of Claermorris.

GBEAT SOUTHERN AND WESTERN RAILWAY Co., 4th May, 1911.—That the arrangements for the conveyance of eggs by goods train service from Abbeyleix to London were in need of improvement.

The matter is receiving attention.

The matter is receiving attention.

GREAT SOUTHERN AND WESTERN RAILWAY CO.; LONDON AND NORTH
WESTERN RAILWAY CO., 4th May, 1911.—That in four 6 hhd. cases of eggportion of a consignment of 14 cases forwarded from Kilgaryan, Co. Kerry

via Dublin and Holyhead to Manchester-it was found on delivery that

3 hhd, eggs were broken or missing,

The Department had inquiries made in regard to the conveyance of the consignment. It appeared that the eggs were forwarded at Owner's Risk rate. The London and North Western Co., however, offered to pay half the amount-25s. 8d.-claimed in respect of the loss sustained.

GREAT SOUTHERN AND WESTERN RAILWAY Co., 9th May. 1911.-That horses loaded at Thurles Station about 12 noon on the 2nd May (Thurles Fair) for conveyance to Waterford, were detained in the wagons, without food or drink, in rainy weather, until 7.30 the following morning when

they were delivered.

It appeared that the horses-two wagon loads-which were booked at goods train rate, were despatched from Thurles at 3.58 p.m., and were watered at Clonmel, where they remained till 2.40 a.m., awaiting train connection with Waterford. The animals reached Waterford at 4.20 a.m. but the owners did not arrive to take delivery till 7 a.m. It appeared that the Company were prepared to despatch a special through train for live stock from Thurles to Waterford on the date in question, but that sufficient traffic did not offer. Arrangements were made by the Company to have horses sent from Thurles Fair to Waterford conveyed, if delivered to them in time, by the 12.5 p.m. train which was timed to arrive at Waterford at 3,20 p.m.

MIDLAND RAILWAY CO. (NORTHERN COUNTIES COMMITTEE), AND OTHER COMPANIES, 12th May, 1911.—That heavy breakages occurred in consignments of eggs forwarded by complainant from Ballymoney.

An Inspector interviewed complainant, who was unable to supply specific instances of consignments which were damaged during conveyanne.

LONDON AND NORTH WESTERN RAILWAY Co., 17th May, 1911.-That butter was abstracted during conveyance from parcels forwarded from Lismore via Dublin and Holyhead to places in England.

The London and North Western Railway Co. stated that the traffic was being specially looked after whilst in transit over their system.

Grand Canal Co., 23rd May, 1911.—That a consignment of eggs sent from Rossmore to Limerick was delayed in transit, and that breakage and pilferage occurred during conveyance.

Subsequently the complainant informed the Department that legal proceedings had been instituted in the case. Complainant was awarded £2 8s. in respect of damage to the consignment and pilferage, together with £1 8s. costs.

COUNTY DONEGAL RAILWAYS JOINT COMMITTEE AND OTHER COMPANIES. 29th May, 1911.-That certain consignments of eggs sent from Donegal to London and to Leeds were damaged in transit,

The Department communicated with the Committee in the matter. The Committee stated that when one of the consignments was handed to thom at Donegal one of the cases was leaking. Claims made in respect of tho other consignments were met.

MIDLAND GREAT WESTERN BAILWAY OF IRELAND CO.; LONDON AND NORTH WESTERN RAILWAY Co., 1st June, 1911.—That when a crate of live fowl forwarded from Hollymount, Co. Mayo, to London, reached its destination on the 22nd March, three of the birds were found to be dead, that five were unable to stand, and that the remainder were badly bruised. The Department brought the matter under the notice of the Companies and a claim (13s. 9d.) in respect of the damage was met.

MIDLAND GREAT WESTERN BAILWAY OF IRELAND CO., 3rd June, 1911.— That the Company would not convey by the I.30 p.m. train from Clifden, mackerel consisted from Clifden to Sheffield. 30

The Company stated that they could not see their way to carry mackered traffic by the Up Limited Mail (1.30 p.m. train from Glifden), as it was a traffic which was forwarded in large quantities, and its conveyance would seriously interfere with the running of the train.

GREAT NORTHERN RAILWAY CO. (BRILKYD), 6th June, 1911.—That row wagnoss of store cattle which were forwarded on the 28th March from Rillmury to Kolls, and trunsferred to the Greak Northern Railways Co. at 4 o'clock next morning, although an understaining but been given on behalf of the Great Northern Co. to have the cattle at Kells et 11 pm. on the control of the c

The Great Northern Railway Co. stated that on the date in question they received at Dublin from the Great Southern and Western Railway Co. 38 wagens of earth from the Kilkenny fair to be foreworded to several stations on third system, that the wegons resched them in a mixed constantian on their system, that the wegons resched them in a mixed conference of the control of the control of the control of the conference of the control of the control of the control of the foreworded at about 8 pms, that delays consequently occurred at certain stations, and that the two vegoms received Kind at 32 Son. The Company abded thus, in the circumstances, a better service could not have been stations, and that the two vegoms received Kind at 32 Son. The Company abded thus, in the circumstances, a better service could not have been at any specified times no understanding that the cettle would be at Kind.

Genat Southher and Western Railway Co., 5th June, 1911.—
That a wagon of catalt sent on the 9th December, from Kilmallock to
Trim, was delayed in transit, and that a claim of 228 So. in respect of
depreciation in value, loss of an animal, and expenses consequent on
the delay, was not paid.

The Great Southern and Western Railway Co. sated that there had been a mistake in the booking of the cattle, whereby their destination was given as Dublin instead of Trim, that the animals were properly cased during two days detention at Dublin, and that a sum of \$5 had been offered by the Company in respect of the disappointment and express occasional.

Great Southern and Western Railway Co., 5th June, 1911.— That cattle, which were forwarded from Westport to Geashill, and which were transferred to the Great Southern and Western Company at Athlone at 7.55 p.m. on the 22nd May, were not ready for delivery at Geashill until 11.30 p.m. on the 23rd May.

until 11.39 p.m. on the 23rd May.

It appeared that there was only one goods train daily from Atblene
to Gessbill, and that it left the former station at 6.50 p.m. The cattle
which were forwarded at goods train rate, were not therefore despatched
from Athlone until the 23rd.

GRIAR SOUTHERN AND WISSTIMS RAILWAY CO., 14th June, 1911.— That the Grees Southern and Western Railway Company's station— That the Grees Southern and Language of the Company of the Compa

The Department communicated with the Company, and were informed that the consignment in question consisted of 34 boxes (6 fools and 29 for Cross-Channal stations), that 10 of the boxes were not fools and 29 for Cross-Channal stations), that 10 of the boxes were not that the consignment from other train was due to depart at 5.09 parts and the constraint of the communication of the communication of the communication of the properties of the three corresponds of the three corresponds of the three corresponds to the correspond to the station for corresponds of the station for

GRAM SOUTHERN AND WISSERS RAILWAY CO.; MIGLAM GRAW-WISSERS RAILWAY OF BILLAND, CO.; LONDON AND KONET WISSERS RAILWAY OF BILLAND, CO.; LONDON AND KONET WISSERS RAILWAY CO., 16th June, 1911 II.—That six 56-th boxes of butter forwarded on which the contract of the contract

The Department communicated with the Core Assembly and Western and Middland Growt Western Railway Companion. It appeared then the consignment mentioned resoluted North Wall on Senday merining. 11th June But that the wego in which it was loaded was not "certed" read that the butter missed aliquents been Company's yeard, with the result that the butter missed aliquents been Company's yeard, with the result that the butter missed aliquents been Companies to secure that wagons containing butter forwarded to Cross-Railway Company's Sunday book. Arrangements were minds by the Companies to secure that wagons containing butter forwarded to Cross-Railway Company's limit of the Core of the C

GERGA SOUTHERN AND WISSTERN RAILWAY CO., 16th June, 1911.— That the Company had refused to access to an application. By complainants, to have consignments of butter purchased by provided to 2nd June, at market towns on the Company's system, forwarded to Cark by passenger trains running on Thursday (Coronation Day) or where there were no such trains available after the markets on Thursday, by the

earliest passenger tenins on Friday.

It appeared that the Company had had so many applications to convey the training by passenger train on Thursday that they foot bound to although the properties of a public notice which they had given to the offect that such trailing would not be carried by passenger train on the occasion. As regards Priday the Company considered that their passenger trains would not

be able to cope with the traffic, and had declined therefore to carry it by passages train sevies on that day.

Grant Scottman Any Western Rattivay Co., 19th June, 1911.— That the Company had infuncted that they would not convey by the passages train on Monday morning stee the New Monday of the Royal Dubin Society Winter Show.

The Company stated that they could not arrange to convey the stock by the 7.20 a.m. passenger train from Cork (the train in question) which had connections to make for the Kingstown steamer. The Company for the Company of the Company of the Company for the Company for the Company of the Com

GREAT SOUTHERN AND WESTERN BAILWAY CO.; GREAT WISTERN RAILWAY CO.; GREAT WISTERN RAILWAY CO.; GREAT WISTERN RAILWAY CO.; GREAT WISTERN THE 1981 June 1981 June 1981 June 1981 June 1981 June, and that then 200 eggs were found to be broken and 50 were missing.

The Department communicated with the Companies in the matter. No information was, however, obtained as to how the injury to the consignment occurred. The question of meeting a claim has not it appears been settled.

SALE OF FOOD

I.—Statement giving particulars as to Samples of Butter,
Acts in the Counties

		But	ter.		Marg	arine.
COUNTY.	No. of Samples taken.	No. of Prose- cutions.	No. of Convic- tions.	Penalties imposed.	No. of Samples taken	No. of Prose- cutions
				£ s. d.		
Antrim.	67	1	1	0 10 6	1	
Armagh	133		^	- 10	4	
Carlow.	39					
Cavan, .	100	2	- 2	0 15 6	_	
	243	5	5	2 11 1	-1	_
Clare, .		43	42	30 13 3		_
Cork, .	608	43	4.2	30 13 3	1	_
Donegal, .	153	_	- 3	_	3	_
Down, .	110	_	_		7	_
Dublin, .	301	_	_		10	1
Fermanagh,	25	_	_		-	_
Galway, .	121	8	8	6 3 6	-	-
Kerry, .	264	16	12	3 10 4	1	
Kildare, .	62	Cont.		200	9	_
Kilkenny	82	S	_	_	1	
King's, .	86	2	2	0 15 0	7	1
	57	-	-	0 10 0	'	
Limerick	186	- 5	3	2 9 0	1000	
Limerick, .		0	0	2 9 0		_
	42	_	_	_	_	-
Longford,		-	-	_		-
Louth, .	78	-	_	_	I —	-
Mayo, .	65	1	1	0 12 6	6	-
Meath, .	62	1	1	0 13 6	3	_
Monaghan,	31	1	1	0 1 0	_	
Queen's, .	106	1	1	0 13 6	_	_
Roscommon	54	_	_	_	_	_
Sligo, .	20	-	_		_	_
Tipperary (N.R.),	145	4	4	2 19 0	-	-
Tipperary (S.R.),	101	3	3	1 14 1	6	-
Tyrone, .	a 101		_		_	_
Waterford	146	5	5	1 11 0		_
Westmeath,	120	_			2	
Wexford.	26		1			
Wicklow,	109	-	i -	-	1	-
Total,	3,869	98	91	55 12 9	55	2
Total for Year 1909	4,302	104	94	60 9 2	68	8

One sample of Margarine-Cheese was taken in Co. Antrim during the period. There was no infrincement of the Acts in regard to the sample.

AND DRUGS ACTS.

Margarine, Cheese and Milk taken by Inspectors under the during the Year 1910.

			Cheese.		3	filk.	
No. of Convie- tions.	Penalt impo		No. of Samples taken.	No. of Samples taken.	No. of Prosecu- tions.	No. of Convie- tions.	Penalties imposed.
	2 0	1	38 2 3 1 1 1 6 2 5 5 6 2 2 2 3 1 1 8 8 2 2 2 3 1 1 8 1 1 4 4 2 6 5 5 1 2 6 6 3 3 1 8 1 8	141 69 16 65 131 135 135 28 214 139 65 86 53 44 373 373 29 29 130 29 15 29 29 15 29 29 15 29 29 29 29 29 29 29 29 29 29 29 29 29	9 8 8 3 3 5 5 1 1 5 4 4 8 8 3 2 2 3 3 7 7 9	7 8 1 1 5 5 4 0 3 6 6 28 3 6 6 7 7 2 5 5 1 1 0 2 1 1 5 5 2 1	£ s. d. 3 9 0 7 4 7 7 9 9 4 1 7 7 29 0 6 69 3 0 6 13 9 6 61 3 0 6 17 6 18 6 62 2 8 6 1 7 6 0 8 6 5 5 5 6 2 5 0 0 13 0 0 13 0 0 13 0 0 13 0 1 2 7
2	2 3	1	3 • 54 2 32 1 19 528*	347 97 123 204 36 80 4.721	14 5 1 4 - 1	9 -5 -4 -1 167	5 13 6 4 10 0 6 6 0 0 6 6 179 16 19
7	14 2	0	583†	5,232	241	204	252 4 3

<sup>\*</sup> No proceedings were instituted in respect of any of these samples,  $\dagger$  Proceedings in one case in Co. Antrin. Case was dismissed.

II.—STATEMENT GIVING PARTICULARS AS TO SAMPLES OF BUTTER, THE ACTS IN THE COUNTIES DURING

		1	Butter.	
County	No. of Samples taken.	No. of Prosecu- tions.	No. of Convic- tions,	Penalties imposed.
Antrin, Armagh, Cavan, Clare, Cork, Donogal, Doven, Fermanagh, Galway, Kerry, Kildare, Killeany, King'a, Lineriek, Londonderry, Louth, Mayo, Meath, Mayo, Meath, Mayo, Meath, Meath, Mayo, Meath, Meath, Mayo, Meath, Meath, Meath, Mayo, Meath,	41 62 69 63 88 259 66 116 129 79 126 45 45 47 77 116 114 114 117 116 117 117 117 117 117 117 117 117			£ s. d
Roscommon, Sligo, Tipperary (N.R.), Tipperary (S.R.), Tyrone, Waterford, Westmeath, Westford, Wicklow,	47 32 20 69 62 54 74 73 43	1 	-1 -1 -1 -1 -1	0 2 0 19 0 19 0 12 0 12 0
Total, .	. 2,039	58	51	32 10

<sup>\*</sup>Prosecutions were instituted in respect of two samples, the one taken obtained, penalties of 15s. 6d. and 2s. 6d. respectively being imposed. , † In only one case were proceedings instituted. The sample was

MARGARINE, CHEESE AND MILK TAKEN BY INSPECTORS UNDER THE HALF-YEAR ENDED 30TH JUNE, 1911.

Margarine	Cheese.	Mük.							
No. of Samples taken.	No. of Samples- taken.	No. of Samples taken.	No. of Prosecu- tions.	No. of Convic- tions.	Penalties imposed.				
3 2 1 2 2 2 7 3 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19 11 12 2 32 41 7 7 1 10 10 2 2 7 11 10 6 8 1 1 5 5 7 16 1 5 7 2 2 4 4 20 0 1 9	81 37 43 40 72 2192 69 69 69 10 10 11 11 11 13 11 13 229 25 27 64 14 71 71 71 71 71 71 71 72 73 74 75 75 75 75 75 75 75 75 75 75	10 6 2 4 11 11 9 8	. 6 4 2 4 1 1 9 7 7 6 6 7 5 3 3 8 7 7 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E s d. 3 19 0 3 117 0 2 18 0 1 19 2 6 6 1 2 6 6 1 2 18 0 1 19 2 6 6 1 6 1 6 1 13 6 1 13 6 1 13 6 6 0 2 6 6 0 2 6 6 0 4 4 6 0 2 6 7 7 2 8 7 7 1 14 0				
43*	†279	2,521	99	86	79 13 11				

in Co. Galway and the other in Co. Tipperary (S.R.). Convictions were

taken in the Co. Antrim. The case was dismissed.

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III.—STATEMENTS GIVING PARTICULARS AS TO SAMPLES OF UNDER THE ACTS YEAR 1910.

		Butt		Margarine			
Вовочен	No of Samples taken.	No of Prosecu- tions.		Penalti		No of Samples taken.	No of Prosecu tions.
					ì.		-
Belfast, .	170	. 5	5	14 0	0	54	3
Clonmel, .		_	-	-	- 1	4	-
Cork	171	7	7		6		-
Drogheda, .	21	I 8	1	I 1	θ	-	_
Dublin, .	123	8	8	28 0	0	4	4
Kilkenny, .		-	_		- 1	_	-
Limerick, .	116	2	2	0 14	6	8	-
Londonderry	18	1	_	_	- 1	8	_
Sligo, .	24	1	1		1	3	
Waterford,	54	1	1	0 19	0	-	
Wexford, .	33	-	_	-	- [	1	-
Total, .	786	26	25	56 2	1	82	7
Total for Year 1909	882	46	46	130 9	0	88	_

## Half-Year ended 30th June, 1911.

		Butter.								
Волого	п.	No of Samples taken.	No. of Prosecu- tions.	No. of Convic- tions.	Penalties imposed.					
Belfast, . Clonmel, Cork, . Drogheda. Dublin, . Kilkenny, Limerick, Londonderry, Sligo, . Waterford, Wexford.		51 24 96 20 73 3 92 17 11 35	-2 -2 -5 -8 -8	-2 -2 -5 -8 -1	£ s. d. 10 0 0 3 5 0 22 10 0 4 1 0 ———————————————————————————————————					

<sup>\*</sup> Proceedings were instituted in respect of three samples taken in

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BUTTER, MARGARINE, CHEESE AND MILK TAKEN BY INSPECTORS IN THE BOROUGHS.

YEAR 1910.

		Cheese,	se, Milk.						
No. of Convic- tions.	Penalties imposed.	No. of Samples taken.	No. of Samples taken.	No. of Prosecu- tions.	No. of Convic- tions.	Pen imp			
	£ s. d.		-			£		d.	
2	1 5 0	4	712	74	73	86	15	0	
-	_	4	97	3	2	4	4	0	
-	_	4	417	37	37	35	1	- 0	
. —	_	-	128		- 1	-			
4	5 10 0	_	1,040	52	51	128	0	0	
-	_	_	41	1	1	1	1	0	
-		10 3 6	398	8	7	1	4	6	
_	_	3	55	4	4	6	8	0	
_	=	6	59	20	8	7		0	
_		_	85	1	1	1	13	- 6	
		_	103	5	4	5	12	6	
6	6 15 0	27	3,135	205	188	277	7	6	
_	_	30	3,170	130	127	223	4	0	

## HALF-YEAR ENDED 30TH JUNE, 1911.

Margarine	Cheese		Milk			
No. of Samples taken	No. of Samples taken	No. of Samples taken	No. of Prosecu- tions.	No of Convic- tions.	Penaltie imposed	
					£ 0.	d.
22	1	358	61	59	95 10	0
-	- 1	36	1	1	3 0	0
_		273	22	22	24 7	8
-	1 - 1	74	2	2	8 0	0
6*	- 1	620	54	48	129 12	0
190.0	1 - 1	29	1	1	1 10	0
5	6	276	9	7	3 2	6
4 3	3	41	6	6	15 15	0
3	1 1	23	3	3	1 16	0
_	I – I	69	4	4	8 14	1
_	- 1	56	8	6	9 3	0
40	11	1,855	171	159	300 10	3

Dublin, and penalties amounting to £4 were imposed.

IV.—Statement giving Particulars as to Samples of Butter and Margarine taken, under the Sale of Food and Drugs Acts, 1875 to 1899, by the Department's

		Bu	TTER.			Margarine.			
Bohough or County.	Sam- ples	No. of Prose- cu- tions.	Con- vic-	Penalties imposed.	Sam- ples	No. of Prose- cu- tions.	vic-	Penaltie imposed	
Вовочен.				£ s. d.				£ s. d.	
Drogheda,	7 4 12 4	Ξ	=	Ē	- 1 -	1		3 0 0	
COUNTY.									
Antrim, Armagh, Carlow, Cavan, Cavan, Cavan, Cavan, Cork, Co	56 11 16	1 1 4 - 3 2* 1 1 - 3 1	1 1 4 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 2 0 0 1 5 8 11 2 13 6 5 0 0 0 4 0 1 16 0 0 2 6			1	0 2 0	

<sup>\*</sup> These two prosecutions were in respect of one sample, one prosecution being for obstructing officer. No rule made in case, One sample of Margarine-Cheese was taken in Co. Antrim during the period.

Proceedings were instituted in respect of the sample, and a penalty of 4s. 6d. was imposed.

V.—STATEMENT GIVING PARTICULARS AS TO SAMPLES OF BUTTER TAKEN, UNDER THE SALE OF FOOD AND DRUGS ACTS, 1875 TO 1899, BY THE DEPARTMENT'S 'OPTICERS DURING THE HALF-YEAR ENDED THE 30TH JURE, 1911.

		Burr	rmit.	
BOROUGH OR COUNTY.	No. of Samples taken,	No. of Prosecu- tions.	No. of Convic- tions.	Penalties imposed.
Вовотон.				£ a, d.
Dublin, Kilkenny,	1 8	=	=	=
COUNTY.				
Armagh, Carlow, Cavan, Clare, Cork, Down, Dublin, Fermanagh, Galway,	10 14 11 20 82 20 15 2	2 -3 		0 5 0 1 19 1
Kildare, Kilkenny, King's, Limerick, Louth, Moath,	27 18 6 6 6	É	=	
Monaghan, Queen's, Tipperary (N.R.), Tipperary (S.R.), Tyrone,	12 6 3		Ξ	ΙĒ
Westmeath, Wexford, Wielclow,	12	Ē	Ξ	Ξ
Total,	370	6	5	2 4 1

Two samples of Margarine were taken (one in the Borough of Dublin and one in Co. Galway) during the period. Proceedings were instituted in respect of the sample taken in Co. Galway, and a penalty of £1 3s. 11d. was imposed.

VI.—Statement showing, as on the 30th June, 1911, the Number and Distribution of Premises registered for the Manufacture of, or Wholesale Dealings in Margarine or Margarine-Cheese.

				No. of Premises Registered	No. of Premis for the Man	es Registere ufseture of
BOROUGH OR COUNTY.			for Whole- sale Dealings in Margarine or Margarine- Cheese.	Margarine.	Margarine Cheese.	
Bonov	ен.		-			
Belfast,				48	_	_
Clonmel, .				2	_	_
Cork,				8	2 - 2 -	
Drogheda,				1	_	_
Dublin,				39	_	_
Limerick,				3	2	_
Londonderry,				2	_	_
Sligo,				1	_	-
Waterford,					_	_
Wexford, .				1	_	_
COUNT	γ.					
Antrim, .				5	_	1
Armagh, .				1	_	_
Down, .				1	_	_
Dublin, .				5	_	_
Fermanagh,				1	_	_
Galway, .				1	-	_
Kerry, .				1	_	_
King's				2	_	_
Louth, .				1	_	_
Tipperary (S.R.	٠),			1	_	_
Westmeath.				1	_	_
Wexford, .				_	1	-
Total.				130	5	1

VII.—STATEMENT SHOWING, AS ON THE 30TH JUNE, 1911, THE NUMBER AND DISTRIBUTION OF PREMISES REGISTERED AS BUTTER FACTORIES.

Borough.		No Bu	of R	egistered actories	COUNTY.	No of Registered Butter Factories		
Clonmel,				1	Fermanagh,			1
Cork,				22	Kerry, .			28
Dublin,				1	Leitrim, .			3
Limerick,				3	Limerick, .			3
Londonderry,				1	Londonderry,			1
Waterford,				1	Longford, .			5
					Monaghan.			7
COUNTY.					Tipperary (N.)	R.).	- 1	1
Antrim,				2	Tipperary (S.I.	.).	- 1	4
Armagh,				2	Tyrone,	·.		5
Carlow,				1	Waterford,			6
Cavan.				34	Wexford, .			5
Clare,				2				
Cork,		- 1		33	Total			173
Donegal,				1				

#### BUTTER AND MARGARINE ACT. 1907.

List of Names which have been approved by the Department for use in connection with Margarine, and in regard to which applications were received during the year ended the 30th June, 1911. Handmaid.

Red Star.

Vendo.

Viking.

Villa.

Banquet.

Gardenia.

Garland.

Goal.

Birch Tree. Huswif. Blackbird. Hyacinth. Sabrina. Seesaw. Iceberg. Cactus. Shandon Castle, Castle. Icoline. Snodrop. Imperial. Challenge. Snowdrop. Chrysanthemum. Imperial Crown, Sovereign. Committee. Standa. Jewel. State. Consumers. County. Sundew. Crano. Kingeup. Sunflower. Crenut. Knutal. Sweet Briar. Crocus. Sycamore Tree. Lion. Daffodil. Lobby. Tiger. Dewtop. Duello. Margo. Union Jack. Mayco. Empire. Maydew. Mayfirm. Vecco. Mayflower. Vegera. Fatima. Menu. Vegetaria. Milmut. Velvina.

Nuterea. Gold Cross. Golden Bloom. Walnut. Golden Cross. Olive Tree. Walros White Swan. Golden Crown. Golden Dew. Palm Tree. Willow. Pasella. Golden Eagle. Woodbine. Golden Guinea. Pearloma. Golden Swan. Pilot. Yellow Bloom. Grand National. Poplar Tree.

New Century.

Nut.

Green Star. Primrose. Guildball. Probono. Guinea Gold.

# DEPARTMENT OF ACRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

# WATER IN BUTTER.

The attention of Butter Makers is drawn to the following Regulation made on the 23rd April, 1902, by the Department in exercise of the powers conferred on them by Sections 4 and 24 of the Sale of Food and Drugs Act. 1899 :--

Where the proportion of Water in a sample of Butter exceeds sixteen per cent., it shall be presumed for the purposes of the Sale of Food and Drugs Acts, 1875 to 1899, until the contrary is proved, that the Butter is not genuine by reason of the excessive amount of water therein.

Butter Makers should ensure that Butter, when prepared by them for the Markets, does not contain more than sixteen per cent. of water, Infringement of the Regulation involves liability to a Prosecution.

LIST of ANALYSTS acting under the Sale of Food and Drugs Acts, 1875 to 1907, for the Boroughs and Counties in Ireland.

Local Authorities.  Councils of Bordunes of P Belfest, J. Harold Totton, B.A., Edg., A.L.O. Gonnel, S. C. A. Casseene, Can, M.D. Doughels, D. J. O'Mahony, F.C.S. Displace, D. J. O'Mahony, F.C.S. Doughels, D. J. O'Mahony, F.C.S. Dou		100.	, 101	· ·	_	aroughs and Counties in Ireland.
Baleian (Conuc) (Conuc	Local A	uthori	ities.			Name of Analyst.
Glomand, Glo	Councils o	и Вов	ютон	8 or :-		
Glomand, Glo	Belfast,				J	J Harold Totton B.A. B.sc. a.L.
Oork, D. J. O'Mallomy, r.Co.k. D. D. O'Mallomy, r.Co.k. D. D. O'Mallomy, r.Co.k. D. D. D. C. Cameron, C. M. D. D. C. Cameron, C. C.	Clonmel,					Sir C A Compron on Mr.
Docheda, S. Sir C. A. Caureron, C.h., Man. Do., do. Limerick, D. Do., do. Do., do. Limerick, D. Do., do. Do., d						D I O'Mahony was
Dublin,   Do.,   do.	Drogheda,					Sin C A Carregroup of p. see
Nilsonny   Do. D	Dublin.					Do do do
Limerick   Do.   do.	Kilkenny,					Do., go.
	Limerick.					Do., do.
Sligo, Wasferdel, S. St. C. A. Councern, C.L., M.D. De, de, D.C., Courser Course Courser Courser Course Courser Course Courser Course Course Courser Course Cou	Londonder	TV.				Dodges Tale Delines T. 1
Sig C. A. Cameron, C.B., M.D.		133				Professor John Bobinson Leobody, M.A.
Waisferd.   Do.	Sligo,					Disc., M.I.C.
Wesford,  De, de,  De, de,  OCHEVE COUNTER OF :—  AMITIM.  (Vacane),*  J. Horold Tottom, R.A., R.B.S., A.L.G.  Corle,  Corle,  De,  De,  De,  De,  De,  De,  De,	Waterford.					Sir C. A. Cameron, c.B., M.D.
COUNTY COUNCILS OF .—  Antiriu.  Antiriu.  J. Horold Totten, B.A., B.S., A.L.C. See See See See See See See See See Se	"Wexford.					Do., ao.
Antein					7	Do., do.
Armagh,	COUNTY CO	UNCIL	s or:	:		
Armagh,	Antrim.					(Wasser) *
Carlow   Sir C. A. Cameron, c.h., M.D.	Armagh.				1	( vacant).
Cayena	Carlow.				1	J. Harold rotton, B.A., B.Sc., A.L.C.
Clare   De.   do.	Cavan.					Sir C. A. Cameron, C.B., M.D.
D. J. O'Malowy, r.c.a.	Clare				1	Do., do.
Dongsd.   Chartes McMallan.	Clork				1	Do., do.
Fernanagh,  Do.,  Galway,  Do.,  Do.,  Do.,  Galway,  Do.,	Donosol	-			- 41	D. J. O'Mahony, F.C.S.
Fernanagh,  Do.,  Galway,  Do.,  Do.,  Do.,  Galway,  Do.,	Donegai,					Charles McMullan.
Fernanagh,  Do.,  Galway,  Do.,  Do.,  Do.,  Galway,  Do.,	Down,					Sir C. A. Cameron, c.n., M.D.
Achdeson	Duom,					Do., do.
Achdeson	Fermanagn	L,				Do., do.
Achdeson	Galway,					Do do
Achdeson	Kerry,				-	D. J. O'Mahony, p.c.s.
Linserick,   D.   D.   Controlled, C.   S.   D.	Kildare,					Sir C. A. Cameron C. P. M. D.
Linserick,   D.   D.   Controlled, C.   S.   D.	Kilkenny,				0	
Linserick,   D.   D.   Controlled, C.   S.   D.	King's,				1	D. J. O'Mahony P. C. s
Linserick,   D.   D.   Controlled, C.   S.   D.	Leitrim,					Sin Cl A Champion Ch as D
Lendonderry	Limerick.					D. C. A. Conneron, C.B., M.D.
Longlord, Louth Mayo, Ma	Londonder	ev.				T Waste and The state of the st
Cherie McMelland					1	J. Harold Lotton, B.A., B.Sc., A.LC.
Louth   Sir C. A. Guineron, C.B. M.D. Mod. Mayo,   Do. d	Longford.				1	(temporary),
Mayo,   Do.,   do.	Louth.				1	Charles McMullan.
Meath,   Do.,   do.					1	Sir C. A. Cameron, C.B., M.D.
Monaghan						Do., do.
Queen's,         Do.,         do.           Rosocommon,         Do.,         do.           Sligo,         Do.,         do.           Tyrone,         South Riding,         Do.,         do.           Tyrone,         Ob.,         do.         Do.,         do.           Westmoath,         Sir C. A. Camerom, C.B., M.D.         Do.,         do.           Westmoath,         Do.,         do.         Do.,         do.	Monaghan					Do., do.
Rosecumson   Dec.   Color	Oneon's					Do., do.
Siigo	Possonna				1	Do., do.
Tipperary, North Riding, Do., Do., Both Riding, Tyrone, Waterford, Sir C. A. Cameron, C.B., M.D. Westmesth, C.					-	Do., do.
Do.	migo,	Sec. 11		.*	-	Do., do.
Do.   South Riding,   Do.   do.	Tipperary,	Norte	1 Rica			Do do
Westmeath, Do., do.	, Do.,					Do., do.
Westmeath, Do., do.	Tyrone,					Robert F. Blake, F.L.C.
Wexford, Do., do.	Waterford,					
wextord, Do., do.	Westmeath.					Do., do.
	Wexford.					Do do
200, 40.	Wicklow,				П	Do do
					Ή	Do., uo.

 $^{*}$  J. F. W. Hodges, F.I.C., F.C.s., acts as Analyst for the District of Carrickfergus,

# THE MERCHANDISE MARKS ACTS, 1887 AND 1909.

Regulations made by the Department of Agriculture 'and Technical Instruction for Ireland, with the concurrence of the Lord Chancellor of Ireland and of the Board of Trade, pursuant to Section 1 (1) of the Merchandise Marks (Ireland) Act, 1909, with regard to the Prosecution in Ireland of Offences under the Merchandise Marks Act, 1887.

1. The Deportment of Agriculture and Technical Instruction for Ireland, all, ships to the conditions in the next following Regulations prescribed, undertake the prosecution in Ireland of offences under the Merchandise Marke Act, 1873, in cases which appear to the Deportment to relate to relate to the contract of the Contract, and to affect the general interests of the country, or of a section of the community, or of a section

(i.) Every application to the Department to undertake a prosecution shall be accompanied by the following documents:—

(a) A statement showing the nature and circumstances of the case and sufficient to enable the Department to form an opinion whether the case relates to Irish agricultural produce, or to the produce of any other Irish rural industry, and affects the general interests of the country, or of a section of the community, or of a strade.

(h) A statement showing the facts which, if the Department undertake the precedution, will be capable of proof, and setting out the proofs and names of witnesses available to prove such facts.

(ii.) The Department may require the shove statements to be supplemented or additional evidence to be furnished.

 If, on the evidence, the Department are of opinion that there is no reasonable prospect of a conviction being obtained, the Department will not, unless they think fit, undertake the prosecution.

 If the Department are of opinion that the prosecution would be better or more properly conducted otherwise than under these Regulations, the Department will not undertake the prosecution.
 The Department may, before undertaking a prosecution, require the

applicant to give security for costs on such terms and in such manner as they think proper.

6. For the purpose of carrying these Regulations into effect, the Department may, from time to time, prescribe the use of such forms and give such

T. P. GILL,

Secretary of the Department of Agriculture and Technical Instruction for Ireland.

14th April, 1910.

I concur in these Regulations, S. WALKER, C.

directions as they may deem expedient.

S. WALKER, C.

The Board of Trade concur in these Regulations.

H. LLEWELLYN SMITH, Secretary.

# THE MERCHANDISE MARKS ACTS, 1887 AND 1909.

SUPPERMINARY REGULATION MADE BY THE DEPARTMENT OF AGREGATIOR AND TECHNICAL INSTRUCTION FOR IRELAND, WITH THE CONCURRENCE OF THE LORD CHANCELOR OF IRELAND AND OF THE BOARD OF TRADE, PUBRICANT OF SECTION 1 (1) OF THE MERICANDISE MARKS (IRELAND) ACT, 1009, WITH REGARD TO THE PROSECUTION IN IRELAND OF OFFENCES UNDER THE MERCHANDISE MARKS ACT, 1887.

Notwithstanding anything contained in the Regulations of the 14th April, 1910, made by the Department of Agriculture and Technical Instruction for Ireland pursuant to Section 1 (1) of the Merchandise Marks (Ireland) Act, 1909, it shall be open to the Department to undertake prosecutions in Ireland in those cases appearing to the Department to relate to Irish agricultural produce, or to the produce of any other Irish rural industry, and to affect the general interests of the country, or of a section of the community, or of a trade, in which the evidence is supplied by any of their officers.

T. P. GILL.

Secretary of the Department of Agriculture and Technical Instruction for Ireland.

31st October, 1911.

I concur in this Regulation.

REDMOND BARRY, C.

The Board of Trade concur in this Regulation.

H. LLEWELLYN SMITH,

Secretary.

MARKETS AND FAIRS (WEIGHING OF CATTLE) ACTS, 1887 AND 1891.

List showing the Fairs and Auction Marts in respect of which Exemption Orders were issued between the 1st July, 1910, and the 30th June, 1911.

Fair or Mart. County or Borough. Ardnaglass. Sligo. Ballisodare. Sligo. Ballybrood. Limerick. Ballykett. Clare. Ballymagauran. Cavan. Bawnhov. Cavan. Buttevant. Cork. Callan, P. Grainger's Mart. Kilkenny. Cappataggle. Galway. Carney. Cashel, N. Maher & Son's Mart. Sligo. Tipperary. Charleville, Miller & Mannix's Marts (two). Charleville, M. S. Sheedy's Marts (two). Cork. Claremount. Galway. Cloone. Leitrim. Croom. Limerick. Currens. Kerry. Dowra. Cavan. Raskey. Sligo. Tipperary. Enniscrone. Sligo. Fethard, W. Toppin's Mart. Tipperary. Garrison. Fermanagh. Glenogra. Limerick. Granlahann Roscommon Hospital, W. H. Madden's Mart. Limerick. Issertkelly. Galway. Keelogues. Mayo. Kilfinane, J. F. O'Hurley's Mart. Limerick. Cavan. Killeshandra. Cavan. Kilmaine. Mayo. Kilmallock, P. D. Clery's Mart. Kilmallock, W. H. Madden's Mart. Kilteely, W. H. Madden's Mart. Limerick. Limerick. Limerick. Knockaney, Limerick. Labasheeda. Clare. Limerick, Fitt's Marts (two). Limerick (Borough of). Liscarroll. Cork. Loughmask. Mayo. Mount Talbot. Roscommon. Moycullen. Galway. Moyne. Mayo. Quin. Clare. Rathlacken. Mayo. Saggart. Dublin. Meath. Stonehall. Limerick. Thurles, N. Maher & Son's Mart. Thurles, T. Ryan's Mart. Tipperury, N. Maher & Son's Mart. Tipperary.

Tipperary.

Westmeath.

Tyrrellspass,

# REPORT OF THE DIRECTOR

OF THE

# GEOLOGICAL SURVEY OF IRELAND

For the Year ending 31st March, 1911.

TO THE SECRETARY, DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND.

I have the honour to submit the following Report on the work of the Geological Survey of Ireland for the year ending 31st March, 1911. Mr. W. B. WRIGHT, B.A., rejoined the staff of the Survey on the 1st July, 1910, thus filling the vacancy caused by the retirement of Mr. H. J. SEYMOUR.

The mapping on the six-inch scale of the areas in north-west Ireland, which had hitherto been dealt with only on the one-inch scale, was continued as a principal part of the field-work of the year. Areas in western and south-eastern Donegal and in the county of Londonderry were thus geologically surveyed, and the opportunity was taken of examining the mode of occurrence of the remarkable orbicular granite at Mullachdero. north of Dungloe. Large specimens of this rock were obtained for the collections.

Clew Bay and Clare Island were revisited for the completion of the description of the superficial deposits in the forthcoming memoir on the island. Selected soils of Clonakilty and of Clare Island were investigated and classified in the Laboratory. A number of soils selected as types from Irish districts were determined by mechanical and chemical analyses. A beginning has thus been made in the establishment of a standard series of soils

with which those of any area can be compared.

Duplicate reference copies were made from the field six-inch maps of parts of the counties of Donegal, Sligo, Monaghan, and Roscommon. Progress was made with manuscript sheets of the new quarter-inch geological map of Ireland. A colour-scheme was drawn up in detail for use in future colour-printed maps, based on the new scheme prepared by the Ordnance Survey.

In the Museum, Mr. A. C. Rowan, working as a Temporary Professional Assistant, until Mr. W. B. Wright could be set free from his duties in Scotland, arranged cases of specimens illustrating the Limer ck and Londonderry districts. Numerous specimens of materials used as road-metal in Ireland were also exhibited.

Mr. W. D. Haigh, A.R.C.Sc.L, was employed during the greater part of the year as Temporary Professional Assistant in the Laboratory, A number of enquiries respecting Irish rocks and water-supply were

received, those raising economic questions being answered in consultation with the Economic Geologist to the Department.

The International Geological Congress in Stockholm in the summer of 1910 was attended by three members of the Geological Survey staff. The Director was present on behalf of the Royal College of Science for Ireland, and took part in the visit to Spitsbergen in July. As Director of the Survey, he was nominated to a seat on the Council of the Congress. Mr. T. HALLISSY represented the Survey at the concurrent Agrogeological Congress, Ma, W. B. WRIGHT also attended, and took part in visits to Lapland and southern Sweden.

> I am, Sir, Your obedient Servant, GRENVILLE A. J. COLE.

15th December, 1911.

# REPORT OF THE DIRECTOR

# NATIONAL MUSEUM OF SCIENCE AND ART

FOR THE

#### YEAR 1910-1911.

TO THE SECRETARY OF THE DEPARTMENT OF AGRICULTURE AND TECHNICAL

Instruction for Irreand.

Sir,—I have the honour to submit the following Report for the twelve

months, from 1st April, 1910, to 31st March, 1911—in the Museum is daily becoming mor thoroughly availed of for educational purposes. This year, 1,020 students have been registered as attending the Zeological and Botanieal Divisions, and a large number of students in Geology.

and botament Divisions, and a large number of students in Geology.

The Metropolitan School of Art is steadily increasing its demand on loans,
and very many of the general public apply constantly to the Art and
Industrial Section for information. In this way there is some compensation
for the falling off of the general attendance.

By an arrangement with the Canadian Boards of Education, a body of 170 teachers from Canada visited the Museum, in succession to a large party of students from Canadian schools.

With regard to the exchange system that I proposed to establish between our Museum and other Museums throughout the Engine, in May I received a letter from His Excellency the Governor of New Zealand, Lord Plumbat, in which he stated that he thought my suggestion would bear fruit in which the stated that he thought my suggestion would bear fruit in New Zealand. "My Government," he added, "have sent an extract from your letter to the Anothand, Vellengton, Christopherm, Otago, and the new York of the Company of the New Zealand, "Another State State

piotographa of carvings and ornamentations should be interesting."

I paid frequent visits to London during the year, securing loans of new broaders, to-posteries and stained glass from South Kensington to meet, ordered the state of the state of the state of the properties of the properties of the stained glass from South Kensington to meet, ordered the state of the

forming a permanent Town Pianning Section in our Masseum.
Mr. Tabbot Highes again lett us a large number of besulfind contames of the 18th and early 10th centuries. Mr. Falloner generously lent us a zare collection of old English pottery, principally saltelages, which had been considered to the property of the property of the control of the control

The time limit of the loan from the Royal Society of Antiquaries of Ireland having been reached, the Society kindly renewed it for another year This collection has been placed in the South-West Crypt, which was specially fitted up for its reception.

The collection of Coins left to the Museum under the will of the late Mr. Patrick Murphy, of Newry, was handed over by the executors, and is

now in the care of the Keeper of the Art and Industrial Division.

The small Lecture Theatre recently constructed adjoining the Industries Section being ready, arrangements were made for six lectures to be delivered in the Spring of 1911. Three of these lectures were delivered before the end of the year :---Count Plunkett: "The National Museum."

Professor Cole : "Volcanoes as illustrated by the Models in the Museum." Dr. Scharff: "Animals of Ireland."

The lectures were popular and well attended.

I also delivered a Lecture in the Museum, to the Master Painters' Convention, on Decoration.

Earlier in the year an exhibition was beld, in the porch of the National Library, of papers, books, drawings and paintings, illustrating the career of Sir Samuel Ferguson, whose Centenary was being celebrated at the time. The Board of Education of England some time ago generously transferred to the Museum the copyright in the Handbook entitled; "Early Christian Art in Ireland," by Miss Margaret Stokes, on the understanding

that a new edition would be published. Accordingly I prepared a new edition for issue as a Museum Handbook and Guide to our Collection of Irish Antiquities. The Museums Association accepted the invitation of the Department.

conveyed to them by me, to bold their next annual conference in Dublin.

This will take place in July, 1912.

and Rocks under the care of Dr. Scharff.

The purchases of the year that are of most historical importance were in the Art and Industrial Division, and included some 17th century silver spoons which supplied missing data for the history of Irish silverwork. In the matter of administration I may note that we decided, on the suggestion of Professor Cole, to form a small students' collection of Minerals

The electric light being very unsatisfactory, and so intermittent as to leave the building insecure, we recommended the removal of the arc lamps, asking that they should be replaced by high power Osrams, a work which

has been commenced. The old porch having been removed, it was necessary to make a re-

disposition of a considerable portion of the Natural History Section. The sale of the Guides is satisfactory,

Of the Halfpenny Guide, now in its 49th edition, 3,422 copies have been sold during the year, and of various chapters or parts of chapters of the General Guide, 987 copies.

New editions of the Guides to English Furniture and Ivories have been brought out. We have added the Catalogue of the Falkner Loan Collection, and Chapter 2 of the Guide to Coins and Medals, using illustrations freely in the new issues and editions, and still keeping the price down; issuing the

illustrated Guides at twopence each, and the unillustrated at one penny. Perhaps the most important publication of the year was the new Museum Bulletin, of which two parts have been issued. This publication, in which the text and illustrations are on a liberal scale, deals with the various collections and records the recent accessions. It was greatly needed, particularly for the purpose of making the Museum better known to like institutions out of Ireland, and it not only is to the credit of the Museum, but will add very considerably to its usefulness and popularity,

I append the reports from the heads of the various sections, as well as the returns of attendance, and lists of acquisitions and loans.

> G. N. COUNT PLUNKETT, Director.

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APPENDIX I.

RETURN SHOWING NUMBERS OF VISITORS TO THE NATIONAL MUSEUM OF SCIENCE AND ART.

Months.		Totals.	Week 1910		Sundays,	Totals,
		1909-1910	Mornings.	Evenings.		
April, May, June, July, August, September, October, November, January, February, March,		22,148 21,267 19,511 20,859	16,216 18,338 17,268 21,625 29,286 21,354 18,871 17,281 19,278 17,702 16,712 19,919	323 528 375 425 621 585 426 414 437 452 437 852	2,277 2,571 2,080 2,810 2,833 2,942 3,241 2,478 1,577 3,251 2,330 2,266	18,816 21,437 19,723 24,860 32,740 24,881 22,538 20,173 21,292 21,405 19,479 23,037
		279,325	233,850	5,875	30,656	270,381

#### APPENDIX II.

#### REPORT OF THE KEEPER OF THE IRISH ANTIQUITIES DIVISION.

During the year 500 objects have been registered; of these 180 were deposed by the Nogel fixed handlenge, and inducted to beliefs infarring early Japanese edvidsation, for the comparative collection, registered under the same number. One object was obtained by direct purchase and another by gift. Among the more important objects added to the collection may be mentioned the fine golf Limind discovered at Liesanove, Co. Cowas, and example of an early stone lamp presented by Mr. J. S. Moos, and a very interesting became blade and ferrathe found in Longle Russid by Russid bog, near

Tellearone, King's County.

The whole of the first edition of the Guide to the Celtic Christian Academy and issued in July. It has been most favourably received in

Germany and Norway, and the sales have been good.

In Room No. II., some more stone celts have been placed on exhibition, and two counties—Waterford and Longford—not formerly represented, are now included, with one celt for each. A number of fiint fabricators

from Co. Antrim have also been placed on exhibition.

In Room No. III., a descriptive label has been placed over the torc case.

and the fine collection of glass beads has been re-arranged and labelled. This almost completes the descriptive labelling of Room No. III. A new case containing horse furniture on one side, and a large collection of leather abose on the other, has been arranged and placed on exhibition in this room. Since February, 1911, a good deal of time has been spent arranging the losan collection of the Royal Society of Antiquaries of Treland in the south-west

erypt, which is being fitted up for the purpose. The collection is a large one and involved much care in sorting out scattered "finds." A good deal yet remains to be done. The catalogue of the Anglo Irish Coins in the R. I. A. collection has been

revised and is being issued as one of the Museum Guides.

GEORGE COFFEY,

#### APPENDIX III.

REPORT OF THE KEEPER OF THE ART AND INDUSTRIAL DIVISION.

The work of this Section has gone on steadily for the past twelve months some more of the arrears which had accumulated owing to the very inadequate staffing of the Section in past years, having been worked off

and new work undertaken.

The number of visitors who, desiring to obtain information about various matters connected with Art, Archeology, etc., make personal inquiry at the Keeper's Office, seems to increase steadily each year. These inquiries, together with those made by letter, occupy a good deal of time, and have not hitherto been adverted to in the annual reports.

The establishment this year of a course of winter evening lectures, illustrative of the collections in the Museum, seems likely to prove of benefit both to the public and to the Museum. The lecture on " Handsome Lace " was followed by a great number of requests for information about the different varieties of this fabric, and several donations of lace were received

in consequence of it.

STAFF.—The strength of the staff remains the same as last year, but it is very satisfactory to be in a position to note that the recommendations urged for some few years past as to the proper recognition of Mr. Dudley Westropp's services in the Museum are about to be acted upon, and that he is to be attached to the Staff in a more permanent way than before. The other members of the Staff-Mr, Toppin, Mr. McGoogan, and Mr. Stantonhave attended zealously to the duties assigned to them.

TRAVELLING -In April, 1910, Mr Westropp went to Belfast to arrange for the transfer to Dublin of the collection of exhibits which had been got together in connection with the Sir Samuel Ferguson Centenary Celebration. In May be went to Belfast to make some inquiries and to search the files of local newspapers for information about the manufacture of glass in Belfast.

In December he went to Salford Museum to take over the Collection of English pottery figures, groups, etc., lent to the Dublin Museum by Mr. Frank Falkner. At the same time he visited the Municipal Museum. Liverpool, where he was kindly assisted in studying the valuable pottery collection there by Mr. P. Entwistle. On his way back he stopped at Chester and was shown the valuable collection of Oriental porcelain. enamels, etc., belonging to Mr. Moss. In March, 1911, he went to Carrickfergus with a view to selecting arms

offered to the Museum by the War Office.

In March this year, Mr. Stanton spent a fortnight in London visiting the

principal Museums and studying the collections therein. He paid special attention to the Greek and Roman antiquities in the British Museum, and was kindly assisted by several members of the staff of that Department, including Mr. Forsdyke, who gave him a good deal of help. In September last year I visited the following Museums :-

Cologne.—Kunstgewerbe Museum, and Wailraff-Richartz Museum. Mainz.—Museum of Antiquities.

Stuttgart,—Landesgewerbe Museum, the Royal Collection of Antiquities, and the Museum für Bildenden Künste.

Munich.—The National Museum, the two sections of the Deutsches Museum, the Glyptothek, the Ethnographical Museum.

London.—The Victoria and Albert Museum.

The following new Guides or now editions were issued during the year :— Part VII., Chapter 3.—French Fottery (illustrated); Part VIII., Chapter 3.—English Furniture (new edition);

Part XV.—Fictile Ivories (new edition, illustrated);

Part XI., Chapter 2.—Medals (illustrated).

Catalogue of Falkner Loan Collection of Pottery (illustrated).

This year the illustration of the guides has been begun. This, it is hoped, will greatly increase the unefulness of the guides, set in a undoubtedly increased their inflavors and the guides, set in a undoubtedly increased their inflavors ranging from two pennes to four-pences, according to the amount of matter and the number of plates, these numbering from half-adors to a dozen or more. The short General Guide feel at a half-pennyl

bes reached its forty-ninth edition.

Greek and Roman Collections.—The acquisition of a very beautiful

little Grosk terra-cotta figure of a fomale was omitted from last year's report. He exact provenance is not known, but it is similar to those little figures found in great numbers at Tanagas, during executions in 1874, and assigned to the 5th century not. The lattle of figures from the similar to those potential of the similar to the similar to the similar to the similar potential of the similar to the simil

early period, not already represented in the Museum collections.

A small collection of sherds from Tiryns has been given by Mr. Charles

McNeill.

EARLY ORINNEAL COLLIMITIONS.—Above a dozen casts of Assyrian soulptured atone slabs, removed from the Egyptian Room to the store some years ago, have been got out and, for want of a more suitable position,

bave been set up against the wall of the Annexe.

EGYPTIAN COLLECTION.—A further donation of miscellaneous objects—

From the excavations of Abydos and Ehnasiya—has been received from the Egypt Exploration Fund. It has been placed on exhibition, but is not yet

properly classified and arranged.

ETHOGORATHICA, COLLEGATIONS.—Pending the fitting up of the proposed stord frame wall casing along the east wall of the ethonographical room, to be begon this month (April), very little bas been done with the collections. The new casing will give a good deal more exhibiting space, and level. A valuable gift of rare weapons, from Central Africa, has been received from Dr. Cheeles E. Gardiner, through its William Thomply Stoker, M.D. A collection of very interesting Mexican antiquities has been lent by W. J. Campbell, Eliq. A few small incan, including two rare and interesting the state of the American and Pacific Islands collections. INSIGHT AND PRIMARY COLLEGATIONS.—No additions.

INDIAN AND PRIMARS COLLIDORIOSS—As deadminister of musical glasses, MUSICAL INSTRUMENTS—A very interesting set of musical glasses, arranged in a nest makingsany case, probably of Dublin malke, has boen purchased, also a curious mechanical chamber orchestra, by Woffington, Dublin. Two interesting violins, one by Perry and another by a Cork maker, have been added. A set of Irish beg-pipes by Egan, Dublin, has

been given by Dr. Henebry, and a valuable large harp, by Cousineau, Paris, 18th century, has been lent by Count Plunkett.

Transversa Consecuences.—A number of specimens have been less to the Coré Municipal Massoum, and not be overceiveding in several parts of these collections has been somewhat relieved. It is hoped by altering the platforms, to re-arrange the whole collection of furniture they are, so as to display the specimens to more advantage. Two interesting additions have been made; via, a wall cheft from a bloom plate of the material part of the contraction of the contraction

ASSUMMENTAL GASTS—As a pollumary towards making the Man-Court of the Museum the recoptacle for objects illustrating the set, seaks ology, etc., of Irealand, some of the large plaster caust have been removed from it. During the past year the large pollute-board, the original by Jenn Caujon in the Courtyard of the Louves, and the other caust alongside it. high up on the south wall of the Amores. Other easis will also be removed as opportunity offers.

BIOUTEMENTAL ADOUT all dozen therm have been purchased, several of

IMPOURIEE—About a dozen tems have been purchased, several of Irish interest, including a rare gold reliquary cross of the 17th or early 18th century, also a small silver reliquary and a silver rosary ring. A splendid facsimile of the celebrated Hunterstone Brooch, in the Museum of the Scottish Society of Antiquaries, Edinburgh, has also been obtained.

Costume.—The development of this collection goes on steadily. The ecclesiastical costume has had an addition of an embroidered chasuble of 17th century Spanish work, and the Victoria and Albert Museum has lent some interesting church vestments, Spanish, Italian, etc. Several pieces of Irish interest have been added to the military costume, including an early 19th century volunteer coat, several silver beltplates, one belonging to the Belfast Merchants Corps, one to the Linen Hall Corps, 1796, and one to the Trinity College Corps, 1797. An Irish Volunteer tunic, lent a few years ago by Mr. C. G. F. Chute, has been presented by him. A Spanish officer's uniform has been presented by Miss Hogg. To the civil costume has been added a fine embroidered petticoat of Queen Anne period. as well as an embroidered reticule which belonged to the Princess Sophia (daughter of George III.). Mr. Talbot Hughes, of London, lent a collection of ladies' and gentlemen's costumes of the 18th and early 19th century, A very interesting curtain of cotton, printed in colours, with a quaint representation of a review of Volunteers in the Phonix Park, given by Mr. R. B. Armstrong, of Edinburgh, has been framed and exhibited with the military costume.

Convs and Medals.—The re-arrangement and labelling of the English come is nearing completion. A good many leavene remain to be filled up, but this can now be done very rapidly, in so far as all but the very rare types are concerned. Some half-dozen items have been purchased during the year, and Mr. Martin J. Blake has given a small but valuable mis

collarious collection.

The collection of Irish metals is being added to every year—this year's addition including several by the Mossops. A curious silver badge of the firsh Druish, attend 1192, has been purchased. Several very good medials the production of the metals, compiled by Mr. Westropp, has just been prior an sile.

Asses AND ANSOUN.—The sworks, the pistole, and the hand gues and rifes are all carranged no as to be very well seen. A series, added to very liberally by the War Office, showing the later developments of the hand type have been added to improve the swork of the new steel frame type have been added to improve the swork of the property displayed. CANTED IVORDING, STEE.—An Irish corred wood error of the property of the been added. A very interesting pointed and gift term-cotta figure of a

saint has been purchased and piaced with the beautiful carved wood figure
of the Saviour by Alonzo Cano, as it evidently belongs to his school.

Japanesh Collection.—Seventeen netzukés in carved wood, ivory, and
jade, have been purchased.

Portunes, Pontanto, To Glass.—The work of labelling and describing the Longlield Colon as purchased last year, has compied a good deal of time this year. The admitted was proved interesting examples of time this year. The admitted property interests and provided properties of French faintee, Italian majolios, and Datch dell'i, present and Persian potters. A very good art of Chrises Blues and which heart little has been added to the porceion collection, as well as about a down other interesting examples of Chrises. Blues alpha, French, and German manufactures.

A valuable collection of Nailsea glass vessels has been purchased; also two very beautifully engraved goblets of early Bohemian glass. The Irish glass collection has been enlarged by the addition of about half-a-dozen interesting specimens. Two panels of fragments of antique Roman glass have also been added.

Several collectors have shown their interest in the Museum by donations and losss. These are noted in the lists attached to this Report.

CHINESE, BURMESE, AND CINGALESE COLLECTIONS.—A valuable Chinese bronze figure of a Buddhist priest has been purchased, as well as several other less important items. Another case of Chinese costume has been

arranged.

Embroidery have been purchased, and a quaint panel of Stuart stump embroidery. The Dun Emer Tapestry panel, and the large coloured photographs of tapestries in the Victoria and Albert Museum, have been hung in a better position in the Annexe, and the frames have been fitted with

blinds to prevent injury from sun-light,

LACE.—About fifteen valuable pieces have been purchased for this collection, including Venetian point, point d'Argentan, Valenciennes, Mechlin, and point d'Angleterre. The arrangement remains practically the same as last year. The collection is already congested, and it is hoped, this year, by the removal of one or other of the contiguous collections, to allow of its further extension. METALWORK.—In the general metal-work collection no material altera-

tions have been made, nor any additions of importance, except a curious east-iron fireback, of Dublin make, dated 1737. The more notable additions to the silver include a valuable Irish Chalice, dated 1683, a plain bowl, dated 1729 (Dublin), a tripod sugar bowl. Dublin, 1780; a Galway spoon, about 1665; a London spoon, 1661-2; two Dubiin spoons, 1663-4, and a London apostle spoon, 1635. A sugar basket of about 1775 has been added to the Sheffield plated ware. Miss Bastable has lent a collection of caddy spoons, étuis, tooth-pick cases and similar small objects of interest.

BOOKBINDINGS.—Two additions have been made: a very good example of Venetian work, and another of Dublin work, both 18th century,

Enamels.—A pair of Battersea enamel candlesticks has been purchased. MINIATURES.—The case containing this collection has been removed to a more suitable position on the Main Gallery, where the miniatures will be less susceptible to injury from strong light, and curtains have been fitted to the case. Four miniatures, in colours, have been obtained, and a small

collection of silhouette portraits, mostly by Dublin artists of the early 19th century, has been arranged in the same case. ILLUMINATION.-The copies of early illumination and ornamental scribework have been arranged, with some examples of modern work, on the wall

of the Rotunda Gallery,

STAINED GLASS .- A reproduction of one light from a window in Winchester College Chapel has been set up under the Gallery of the Central Court. Some coloured drawings of good stained glass have been acquired, and arranged with others already in the Museum, and also some large coloured plates from a valuable German work on the subject, on the wall

of the Rotunda Gallery. Engravings.—A small collection of original engravings, illustrating some of the processes of that art, has been arranged on the wall of the Rotunda

Gallery. Here also are exhibited a series of hand-coloured engravings illustrating the wall decorations in the Vatican.

INDUSTRIAL COLLECTIONS.—No additions have been made. It is hoped that more attention will be given to the development of these collections very soon. More space will, of course, be necessary to allow of this. Perhaps the buildings at present occupied by the Royal College of Science, St. Stephen's Green, could be procured for this purpose, when they are vacated by the transfer of the College to the new buildings in Merrion Street. PHOTOGRAPHS OF SILVER PLATE.—This year again we have been indebted to Messrs, John Smyth and Sons, Messrs, Gunning and Reynolds, and

Messrs. Donegan, for obtaining permission for us to photograph interesting examples of antique altar-plate. ABCHITECTURAL PHOTOGRAPHS.—The arrangement of the Dunraven collection of photographs of Irish architecture has been completed, and

similar treatment of the very valuable collection of photographs from negatives kindly lent by Mr. T. J. Westropp is about to be undertaken. Mr. Westropp has still further contributed to the collection this year. POSTAGE STAMP COLLECTION.-Mr. Lane Joynt continues to give his services gratuitously in the development of this collection. The registration

of the collection, begun last year by Mr. Stanton, has been completed this year. It numbers over, 18,000 specimens. Two hundred stamps have been added, including two sets given by the Government of Rhodesia and the Nyasaland Protectorate. It has been considered desirable to remove the rare "inverted swan" stamp (valued at about £500) from the general collection, and to exhibit it in the steel safe case containing the miniatures,

close by the collection.

MUSEUM LIBRARY.-About forty works have been purchased this year, and six valuable books have been given, as well as a large number of pamphlets, museum reports, catalogues, guides, etc.

LOANS TO MITTROPOLITAN SCHOOL OF ART.—The following is a summary

of the objects lent :-

are appended.

Lace, embroidery and textiles (16). Architectural ornament, etc. (6).

Tiles.

Metalwork (7). Woodwork, etc. (2). Water-colours (7.)

Illumination (1). Pottery (2). Case of Japanese Coins.

Irish Antiquities (from Circulation Collections).

Photographs, Books. CIRCULATION COLLECTIONS .- There were 472 issues during the year. Eight new cases were prepared, bringing the total up to 326. The lists of (a) Chief Acquisitions by Purchase, (b) Gifts, and (c) Loans,

> J. J. BUCKLEY, Keeper,

(a.) CHIEF ADDITIONS BY PURCHASE.

Greek and Roman Antiquities (Room L., G.F.) Greek Tanagra figure.

Ethnographical Collection (Room III., G.F.) Two Marquessa fans.

Musical Instruments (Room VII., G.F.) Set of Musical glasses. Mechanical organ, by Woffington, Dublin. Violin, by Perry, Dublin.

Violin, by ---, Cork. Furniture (Rooms VIII., IX. and X.) Wall clock, from a Dublin house. Mahogany wine tray and stand.

Bijouterie (Central Court). Gold reliquery cross. Silver resary ring.

Silver reliquary. Copy of the Hunterston Brooch,

image digitised by the University of Southampton Library Digitisation Unit

Costume (Central Court).
Chasuble, Spanish, 17th century.
Irish Volunteer coat.
Military tunics (3).
Irish Volunteer belt plates (4).
Embroidered petticoat.

Reticule of Princess Sophia.

Coins and Medals (Central Court).

Coins, various (7).

Badge, "Irish Druids," 1792.

Medals, various (13).

Bronze plaque, Modern French, by Chapu. Bronze plaque, Modern French, by Roch.

Bronze phaque, Mousen French, by French.

Badge, United Irishmen, worn by Lord Edward Fitzgerald.

Ivories, etc. (Room VI., First Floor).

Carved wood crucifix, Irish, 1722. Terra-cotta figure of monk, Spanish.

Japanese Collection (Room VII., First Floor). Netsukés (15). Tiger, bronze.

Pottery and Porcelain (Room VIII., First Floor).
Pair of English pottery lions.
English pottery, seven specimens.
French faience, five pieces.
Italian maiolica, plate and bowl.
Dutch pottery, three pieces.

Persian bowl. Chinese porcelain tiles (20). Chinese bowls (2),

Chimese bowls (2), Satsuma bottle. Chinese snuff bottle. Glass (Room VIII., First Floor). Salad bowl, Irish.

Sweetment glass, Bohemian. Goblet, Both German. Goblet, South German. Sweetment glass, English. Tweetmouth glass, English. Nailson glass, 19 specimens.

Two panels of Roman glass fragments.
Chinese Collections (Room IX., First Floor).
Chinese bronze, a Buddhist priest.
Crystal snuff bottle.

Textiles (Room X., First Floor). Chinese silk scarf. Embroidered hanging, Spanish. Altar Cloth, Spanish.

Panel, English Stump Embroidery. Lace (Main Gallery).

Pair of lappets, Old Valenciennes. Lappet, Point d'Angleterre. Point de Venise, two pieces. Cap crown, Point d'Argentan. Parchment pricking, Mechlin. Altar frontal, Irish. Ministures (Main Gallery).

Ministure portraits (4).

Ministure portraits (4).

Silhouette portraits (5).

Bookhinding (Main Calleys)

Bookbinding (Main Gallery).

Dublin binding, 18th century.
Folio, Venetian, 18th century.

Metalwork (Main Gallery). Cast-iron fire back, Dublin, 1737. Silver (Rotunda Gallery).
Chalteo, Galway, 1683,
Taper box, Dublin, about 1750.
Bowl, Dublin, 1723.
Dublin, 1726.
Particle augus bowl, Dublin, 1780.
Furticle augus bowl, Dublin, 1780.
Furticle augus bowl, 1682.
Furticle augus bowl, 1683.
Furticle augus bowl, 1683.
Puritan spoon, Galway, about 1660-70.
Sheffield olsted sugar hador.

Silver Freedom box, Dublin, 1741. Enamels (Rotunda Gallery). Pair of Battersea candlesticks.

Illumination.
Illuminated letter, Modern Irish.

Architectural Decoration.

Mossie panel, Modern, by G. Bridge.
Water-colour drawings of architectural ornament,
Water-colour drawings of stained glass windows.
Postage Stampe (Main Gallery).
Various specimens (200).

#### (b) LIST OF DONATIONS.

R. W. W. Alexander, Esq.—
Alabaster figure of Buddha.

Col. W. A. Alexander—

Specimens of pottery and porcelain.

M. Alshuler, Esq.—
Half-dollar, Chicago Exposition, 1892.

R. B. Armstrong, Esq.—
Linea curtain, printed with a review of the Irish Volunteers,
Belfast Museum, per A. Deene, Esq.—
Fragments of glass from Ballyeastle,

Fragments of glass Martin J. Blake, Esq.— Collection of coins.

F. Bradbury, Esq.—
Photographs of a Sheffield plated dish rine.

R. F. A. Burns, Esq.— Cannon ball. British Museum, Trustees of—

Medallic Illustrations, Parts 12-14. C. G. F. Chute, Esq.—

Irish military jacket.

M. Clinton, Esq.—
One-third farthing, George IV.

James D'Arcy, Esq.—
Pottery lamp from Carthage.
Egypt Exploration Fund—

Collection of antiquities from Abydos and Ehnssiya. Egyptian Research Account— Book: Memphis, Vol. II.

Capt, J. Esmonde White—
Padlock, from Northern Nigeria,
James J. Fuller, Esq.—

Book: Murphy's Arabian Antiquities.

Charles E. Gardiner, Esq., per Sir W. Thornley Stoker—
Trophy of weapons, from Central Africa.

Rev. R. Henebry— Baggipes, by Egan, Dublin. Miss Hogg-

Spanish officer's uniform. Japanese Government-Books (2): Old Fine Arts and Modern Fine Arts at the Japan British Exhibition.

Manchester Museum-Book: Tomb of two brothers, by A. Murray. Metropolitan Museum, New York, per J. H. Buck-

Photographs of grate backs.

Miss MacFerran Panel of Irish embroidered linen. Chas. McNeill, Esq.-

Collection of Greek sherds, from Tirvns, W. W. Mitchell, Esq .-

Fifty-cent note. Miss E. Draper Newman-

Specimens of Dublin bookbinding.

Nyasaland Protectorate-Set of postage stamps. Pennsylvania Museum-

Quarterly Bulletin. Miss A. Peter-

Impressions from D. Garrick's seal. Her Majesty Queen Alexandra-

Book: Arms and armour at Sandringham,

Government of Rhodesia-Set of postage stamps.

H. Smith, Esq.-Leather shoe, Irish.

Major H. Trevelvan-

Photograph of the Fiddler's Stone, Castlecaldwell, E. E. West, Esq.-

Photographs of commissions, 1689, Trustees of the Wallace Collection-

Illustrated catalogue. M. S. Dudley Westropp-Decanter marked "Cork Glass Co."

West African head rest. Brass admission ticket, Royal Dublin Society. Mrs. A. K. Wynne-Specimens of modern Portuguese lace.

# (c) LIST OF LOANS,

J. T. Andrews, Esq.-Collection of Chinese porcelain, ministures, etc.

E. C. R. Armstrong, Esq.-Usbabti figure.

Miss Bastable-Collection of silver plate. A. Bell, Esq.-

Chacc Montague Yeats Brown, Esq .-Collection of porcelain.

W. J. Campbell, Esq.-Collection of Mexican antiquities,

Rev. Ambrose Coleman-Silver chalice, etc.

Lt.-Col. J. J. Cronin-Collection of Burmese objects.

Frank Falkner, Esq.-

Collection of English pottery figures.

Mrs. M. Finucane—

Collection of Thibetan objects.

C. E. Henning, Esq.— Punch Ladie.

Miss Hogan— Certificate and uniform belonging to John Hogan.

Lt.-Col. Davidson Houston— Collection of West African objects,

Talbot Hughes, Esq.— Collection of costumes,

Mrs. Dames Longworth— Collection of porcelain, etc. J. B. S. MacIlwaine, Esq.—

Collection of porcelain, lace, etc. J. Mulhall, Esq.—

Collection of Irish silver,

Officer's coat, Londonderry militia.
L. O'Callaghan, Esq.—

Porcelain bowl.
Thos. O'Connor—

Father Mathew medal, P. J. O'Reilly, Esq.—

Book, with signature of Samuel Ferguson. Basil Orpin, Esq.—

Carved wood figure.
Count Plunkett.—

Count Plunkett.—
Harp, by Cousineau, Paris.
Plaster bust of O'Connell, by Hogan.

Plaster bust of O'Connell, by Hogs St, Columba's College— Collection of plate.

Mrs. M. L. J. Stack—
Oak armoire and chest.
Victoria and Albert Museum—

Collection of textiles,
War Office—
Collection of muskets and rifles,

H. Bantry White, Esq.— Silver spoon.

# APPENDIX IV.

# REPORT OF THE KEEPER OF THE NATURAL HISTORY COLLECTIONS.

The arrangement in the lower hall of the Natural History building of the Collection representing the Irish inso has now been sperly accomplished, but much remains to be done before the work is complete, according to the control of the control of

My suggestion as to the establishment in the Museum of a room where specimens can be handled and closely examined by student has been acted upon, and has been a great success. Research students, who went sensitance from the staff, come to the private offices as hereafore, but the ordinary University and College student now studies in the Student's room. It was opened on the 19th May, 1910. By the end of March, 1911, the room had been used by 676 students, most of whom belonged either to the National

University or the Veterinary College.

For the purpose of identifying specimens, for records of captures and for the general research students, large series of skins and skeletons of birds and mammals, and very extensive collections of spirit specimens of fish and invertebrates, many of them collected by the Fisheries Branch of the Department, have to be carefully preserved, as well as all the duplicates used for exchange with other Museums. For the spirit specimens an underground store has been built, but the space in this is quite insufficient for our requirements, while for the housing of the remaining collections no adequate provision has been made. I also urged in my last report that a special attend ant might be appointed to keep these collections in order and free from dirt and dust, and I greatly regret that this suggestion has not been acted upon, Meanwhile even the general collections suffer from being over crowded. More room is therefore urgently needed, not only for the students' collections

but for the collections exhibited to the general public. As regards dealings with other scientific institutions, we have effected some exchanges of zoological and geological specimens with the Museum of University College, London, with the Museums at Washington, Copenhagen, and Hamburg, as well as with the Prince of Monaco's Museum.

Numerous temporary loans to scientific institutions have likewise been made.

Mr. Southern having been transferred, at his own request, to the Fisheries Branch of the Department, a vacancy has arisen which, it is to be hoped, will soon be filled, as it is extremely difficult for the small staff to cope with the large amount of work. I may mention that one of the most beautiful pieces of work ever produced in the Museum was done entirely under Mr. Southern's direction. It is the model of a rock-pool in which a liquid. never hitherto used in this manner, was successfully employed for the preservation of the animals contained in the group. The model has been greatly admired, and it certainly is far superior to anything of the kind attempted elsewhere, I had the great privilege of being permitted last year to visit the Museums

of Frankfort, Prague, and Vienna, on my way to the International Zoological Congress held at Gratz in Austria, and I was able to inspect a number of beautiful objects suitable for the Students' Collection and to recommend their purchase. I also visited London in the Spring with a view to inspecting various specimens offered for purchase, while Miss Stephens was permitted to study and compare sponges at the British Museum. I have alluded in former reports to the fact that the Library connected

with the Natural History Collections had increased to such an extent, that a room would soon be required to accommodate the books and pamphlets. Most of the latter have been presented by the authors or by the institutions under whose auspices they were published. A complete card catalogue stranged under the authors and subjects has recently been made. The Natural History Library on the 1st of January, 1911, contained 2,426

books and 3,949 pamphlets.

In order to facilitate the scheme of Museum lectures which was started last winter, a small collection of lantern slides is being added, while the collection of slides of Microscopic objects has greatly increased. All this material, along with many special collections of dried specimens, is now accommodated in the private offices, filling up almost all available space,

The Natural History staff was largely engaged during the past year in completing some reports for the Fisheries' Branch of the Department, and in working out the specimens collected by the Clare Island Survey Committee. The following reports have been published during the year:-

A. R. Nichols: Polyzoa from the Coasts of Ireland. Scient, Investi-

gations, 1910. Dept. of Agri. and Tech. Inst., Ireland. R. Southern: Polychaeta of the Coasts of Ireland, part III. Scient. Investigations, 1910. Dept. Agri, and Tech. Instr. Ireland.

The more important purchases included Irish and foreign bird skins, a collection of Microscopical slides of Rotifers, a fine skull of the Extinet Sabre-toothed Tiger from California, and an enlarged model of the House-fly. I beg leave herewith to submit a list of the donations registered by me

during the past year. R. F. SCHARFF.

DONATIONS OF BOOKS AND PAMPHLETS, 1910-1911.

Andersson, G .--

Pamphlet.

Ashworth, J.H.-

The Annelids of the Family Arenicolidae of North and South America. Washington, 1910. Australian Museum, Trustees of—

Records. Vol. II., Nos. 2, 3; Vol. III., No. 3; Vol. IV., Nos. 1, 2, 3, 4, 5, 6, 7, 8; Vol. V., Nos. 1, 3, 4, 5; Vol. VI., Nos. 1, 2, 3, 4,

5; Vol. VII., No. 5; Vol. VIII., No. 2. Sydney, 1892-1911. Bendl, W. S.-Pamphlet.

Bolton, H.— Pamphlet.

British Museum, Trustees of-National Antarctic Expedition. Natural History, Vol. V. Zoology and Botany, London, 1910.

Catalogue of the Lepidoptera Phalaenae in the British Museum, Vol. IX., and plates. By Sir G. F. Hampson, Bart. A Synonymic Catalogue of Orthoptera, Vol. III. By W. F. Kirby.

London, 1910. Catalogue of British Hymenoptera of the Family Chakddidae. By

Claude Morley, London, 1910. Guide to the Crustacea, Arachnida, Onychophora, and Myriopoda exhibited in the Department of Zoology, British Museum (Nat.

Hist.). London, 1910. Guide to the British Vertebrates exhibited in the Department of Zoology, British Museum (Nat. Hist.). London, 1910.

A Monograph of the Culicidae or Mosquitoes, Vol. V. By F. V. Theobald. London, 1910. Monograph of the Okapi. Atlas. By Sir E. Ray Lankester,

London, 1910. Catalogue of the Books, Manuscripts, Maps and Drawings in the British Museum (Nat. Hist.), Vol. III. London, 1910.

A Descriptive Catalogue of the Marine Reptiles of the Oxford Clay, Part L. By C. W. Andrews. London, 1910. Bruce, W. S .-

Pamphlet. Burkill, J. H. Pamphlet.

Carpenter, Prof. G. H .-Two Pamphlets,

Caziot, E.— Three Pamphlets, Coffey, G .-

Pamphlet. Cooke, W. W.—

Distribution and Migration of N. American Shore-Birds, Washington, 1910. Cummings, B. F .-

Pamphlet. Enock, F.

Pamphlet.

Field Museum of Natural History, Trustees of-Publications 139, 140, 141, 143, 144, 146, 147. Chicago, 1910.

Freeman, D. W.— Three Pamphlets. Garwood, E. T.

Two Pamphlets. Gilbert, J. Z .-

Pamphlet. Hedley, C .-Pamphlet.

Hoyle, W. E.— Two Pamphlets.

Indian Museum, Trustees of-

Catalogue of the Indian Decaped Crustacea in the Collection of the Indian Museum. Part I., Fasc. II. By A. Alcock. Calcutta, Annual Report (Nat. Hist. Section) for the Year 1909-10.

An Account of the Shallow-Water Asteroidea. By P. Koehler. Calcutta, 1910.

Jackson, J. W .--Two Pamphlets. Knight, G. A. F .-

Pamphlet. Longstaff, Mrs. G. B .-

Pamphlet. Manchester Museum.-Outline Classification of the Animal Kingdom, Manchester, 1911.

March, M. C .-Pamphlet.

Matthew, W. D.—

Pamphlet. Milwaukee Public Museum, Trustees of-

Twenty-seventh Annual Report. Milwaukee, 1910. Bulletin, Vol. I., Article I. Milwaukee, 1910. Naples, University of-

Annuario del Museo Zoologica della R. Universita di Napoli, Vol. 3, Num. 1-12. Napoli, 1909-10-Nichols, A. R .-

Two Pamphlets. Northumberland Sea Fisheries Committee-

Report on the Scientific Investigations for the Year 1909, and to June 15th, 1910. Newcastle-on-Tyne, 1910.

Nova Scotian Institute of Science-Proceedings and Transactions, Vol. NH., part 2. Halifax, 1910. Pace, S. and R. M .-

Contributions from the Bureau of British Marine Zoology. Publication 3. London, 1910.

Patten, Prof. C. J .-Three Pamphlets.

Royal Irish Academy-Proceedings. Vol. XXVIII., Section B., Nos. 6, 7, 8; Vol. XXIX., Section B., Nos. 2, 3, 4 Dublin, 1910. Royal Zoological Society-

American Museum of Natural History:—41st Annual Report, for the Year 1909. New York, 1910. Comm. de Estudos des Minas de Carvao de Pedra do Brazil. Final Report. Rio de Janeiro, 1908.

Ruthven, A. G .-Two Pamphlets.

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Schaeffer C .-Additions to the Carabidae of North America. Brooklyn, N.Y., 1910.

Scharff, Dr. R. F .--

Rhizopodes d'eau douce. Brit. Antacc. Exped., 1907-9. By E. Penard. London, 1911. Forty-four Pamblets.

Secretary of State for India—

Fauna of British India:—Colcoptera. Lemellicornia, Part 1. By O. J. Arrow. London, 1910. Sedgwick Museum, Cambridge— Forty-fourth Annual Report of the Museum and Lecture Rooms Syndicate (for 1999). Cambridge, 1910.

Sheppard, J.—

Pamphlet. Smithsonian Institution—

U.S. National Museum :--

Bulletins, 71, 72, 73, 74.

Proceedings, Vol. 37. Washington, 1910.

Cambrian Geology and Palaeontology, No. 6. By C. D. Walcott,

Washington, 1910. Société Portugaise des Sciences Naturelles—

Vol. III., Fasc. 1, 2, 3, 4, Supplements 1, 2; Vol. IV., Fasc. 1, 2, Lisbonne, 1909-11.

Southern. R.—

Thirteen Pamphlets,

Stebbing, Rev. T. R. R .-Scientific Results of th

Scientific Results of the Trawling Expedition of H.M.C.S. "Thetis." Crustacea, Part V. Amphipoda. Sydney, 1910. Spher. Max—

Weber, Max— Pamphlet. Welch, R.—

Five Pumphlets.

Woodward, A. S.—
One hundred and sixteen Pamphlets.

#### DONATIONS OF SPECIMENS, 1910-1911.

Alexander, Dr. A. G.—
Small Collection of Insects from Northern Nigeria,
Barrett-Hamilton, Major G. E. H.—

Lesser Horse-Shoe Bat (Rhinolophus hipposideros) from Great Cheverell, Devizes.

Bedford, Duchess of— Skin and Skull of European Bison (*Bison bonasus*) from Russia, Blood, B. N.—

Dipper (Cinclus cinclus hibernicus) from the Dargle, Co. Wicklow. Board of Works, H. M.—

Lessor White-fronted Goose (Anser crythropus) from N. Asia. Bristow, Mrs.—

Vanessa antiopa from Belfast. Campbell, D. C.—

Small Collection of Lepidoptera, and Nests of Aethorhynchus and Zosterops from Southern India.

A few rare shells from Andaman Islands. Spongs (Spongilla carteri) and Nests of Lesser Barbet and Indian Swittlet from India.

Carpenter, Prof. G. H.— Reindeer Warble-Fly (Oedemagena tarandi) with larvae and pupae from Zoological Gardens, Dublin. Hymenopteron (Megastigmus strobilobius) from Avondale. Co.

Wicklow.
Sea Spider (Nymphon maculatum) from the Red Sea.

Christopher, J.-Black Rat (Mus rattus), adult and young from Dungarvan, Co. Waterford. Cooke, J.-

Trout from Lough Melvin, Co. Leitrim, Cree, Miss C. S .-

Specimens of Elona quimperiana, etc., from Forest of Quimperlé, Finisterre, France. Cronin, Lt. Col. J. J .-

Egg of Cassowary (Casuarius australis) laid at Rangoon Zoological Gardens.

Cunningham, Jack-Five tubes of poison of Scorpion and Snakes, and Fangs of Russell's Viper, from India,

Darling, J. ffolliott.

Little Grebe (Podiceps fluviatslis) from Lough Corrib. Delap, Miss M.-A large Sabellid Worm (Bispina volutacornis) from Valentia.

Dillon, R. E .-Irish Hare (Lenus timidus hibernicus) from Castlegar, Co. Galway. Dixon, Prof. A. F .-Collection of Skulls from Bogs and Raths and a few recent skulls

(probably Irish). Dollman, H. C.

Small Collection of Coleopters from England. Dublin Steam Trawling Company-A large specimen of Norway Lobster (Nephrops norvegicus) from

Dublin Bay. Eassie, Major F.-

Skeleton of Pony.

Foster, N. H.— Four specimens of Trichoniscus stebbinoi from Hillsborough, Co. Down. Goddard, Mrs. Norris-

Two specimens of Great Crested Grebe (Podicens cristatus) from Lough Derg, Co. Galway. Grant, Col. C. C .-

Collection of Silurian and Devonian Fossils from Canada. Hackett, Rev. E. A .-

Skull of Young Bottle-nosed Whale (Hunerfodon rostratus) from Ventry, Kerry. Halbert, J. N .-

Four specimens of Metoponorthus melanurus from Howth, Co. Dublin. Hamilton, Major W. J .-

Two specimens of Beetle (Sinodendron culindricum) from Castle-Hamilton, Killeshandra, Co. Cavan.

Hamilton, W. R. G .-Barn Owl (Strix flammea) from Edenderry, King's County,

Handlirsch, Anton-Fossil Wasp's Nest (Eumenis romeri) from Upper Oligocene of Flörsheim, Germany.

Hardy, J. R .-Nine specimens of Stratiomvid Fly (Hermetia illucens) and four larvae, from Para, Brazil. Hossett, Ed.-

Kestrel (Falco tinnunculus) from Carrick-on-Suir. Six Humming Birds from Rio de Janeiro.

Headley, Lord-Buff variety of Rat (Mus decumquus), male and female, from Galway. Hogg, Rt. Hon. Jon .-

Pleistocene Animal Remains from Ightham Fissures, Kent. Collection of Animal Remains from Warton, Lancashire. Unio sinuatus from Mortlake. Kelly, Coo. A. P .--Set of upper teeth and some skull fragments of Irish Elk from Cloon-

glasnymore, Strokestown, Co. Roscommon.

Kelsall, Capt. T. E .-Young Cenet and a few Birds' Eggs from S. Spain.

Kennard, A. S .-Collection of shells and three flint flakes from Ingress Valley Pit,

Jackson, J. W .--

near Swanscombe, Kent-Kew, H. Wallis-False Scorpion (Obisium carpenteri) from Clengariff.

Small Collection of Falso Scorpions and Insects from Clare Is., Co. Mayo. Knowles, Miss M .-

Variety of Field Mouse (Mus sylvatious) from islet off Angleinish, River Shannon.

Longstaff, Mrs .--Small collection of Mollusca from Australia and New Zealand. Lynch, Richard-Long-horn Beetle (Chion cinctus) found in oak staves at the Mount-

joy Brewery, Dublin, and a piece of injured wood. Mackay, A. H .-Part of Type specimen of Heteromeyenia macouni from Sable Island,

N. America. Collection of Freshwater Sponges from Nova Scotia.

Michaelsen, Dr. W .-Two species of Gephyrea (Aspidosiphon) from W. Africa.

Minchin, Prof. E. A .-Three specimens of Clathrina contorta from Banyuls, France.

Morley, Claude— Collection of Hymenoptera from Clare Island and Co. Mayo. O'Riain, Lain-

Kingfisher (Alcedo ispida) from Kilkenny. Pack-Beresford, D. R.-Trichorhina tomentosa from Botanie Cardens, Belfast.

Patten, Prof. C. J .-Hare (Lepus timidus hibernicus) and thirty-six skins of Birds from Clare Island.

Pattersen, Capt .-Four Whalebone plates from Whales caught off Inishkea, Co. Mavo. Penard, Dr. E.-Collection of Microscopical Slides of Rhizopoda from Clare Island

and Co. Mayo. Percival, J. J. Cadwall (Anas strepera) from Wexford Harbour.

Perrin, R. C .-Spatangus purpureus and two specimens of Echinus esculentus from six miles off Greystones, Co. Wicklow.

Power, Mrs. F. M .-Collection of Exotic Lepidoptera.

Rathborne, H. B .-Alpine Accentor (Accentor collaris) from S. Europe. Mrs. Sims,

Barnacles (Balanus balanoides) on Cocoanut from 18 miles off Lambay Island, Co. Dublin.

Smith, H. V. Crawfurth-Horn-Core of Coat (Capra kircus) and Skull of Dog, from three to four feet below the surface at Sandymount, Co. Dublin.

Smith, H .-Four specimens of Tipulid (Ctenophora ornata) from New Forest, Hampshire.

Ornithometia lagopodie from Thulachan, Caithness. Dipteron (Cyclopodia sykesii) from Barberyn Is., West Coast of

Stolfox, A. W. Vertigo lilljeborgi from Glenade, Co. Leitrim,

Moth (Nyssia zonaria) from Belmullet. Strong, Capt. H. W .--

Large Spider from Sierra Leone. Swan, Alan P.-

Petromyzon marinus from Dundalk. Ussher, Mrs.—

Jay (Garrulus glandarius hibernicus) from New Ross, Co. Wexford. R. J.—

Human Skull with incomplete lower jaw, from Kitchen-midden, Inishkoa, Co. Mayo. Animal remains from Kitchen-middens, Rosapenna, Co. Donegal.

Wailes, G. H .-Microscopical Slide of Nebela bipes from Sraheens Lough, Achil Is, Watson, J. H .-

Two specimens of Philisamia ricini. Wear, Miss-

Two humeri of Great Auk (Alca impennis) from Kitchen-middens, Rosapenna, Co. Donegal. Welch, R.-

Small Collections of Sponges, Land Shells, etc., chiefly Irish. Welch, R., and R. Ll. Praeger-

Small Collection of Insects from the Bills off Clare Island. Wise, Bonaparte-A Blue-winged Teal (Querquedula discors) shot in South-east of Co. Cork. First Irish Specimen.

Wright, E. P., Executors of the late-Small collection of Coleopters and Dipters, chiefly Irish.

LOANS. Chute, Capt .-

Temminck's Stint (Tringa temmincki) in winter plumage, killed January, 1848, at Blennerville, Tralee, Co. Kerry. Hunter, R. Hamilton-

Nest and eggs of Wood Wren (Phylloscopus sibilatrix) from Derrybawn Woods, Co. Wicklow.

#### APPENDIX V.

REPORT OF THE CUSTODIAN OF THE BOTANICAL DIVISION.

# HERRARIUM.

The number of students consulting the collections during the past year is 344, many being frequent visitors. Numerous specimens have been identified for correspondents, and reports also have been supplied to the Department's Seed-Testine Station on weeds, etc.

Miss Knowles has given all her available time to the investigation of the Lichens of Clare Island and district, and also spent the month of March at the Natural History Museum (British Museum) London, in consultation with Miss A. Lorrain Smith, F.L.S., regarding her collections. These, when worked out, will be incorporated in the Museum collections.

#### INDEX COLLECTION.

This collection, much used by students, needs extending. Its development is crippled by want of space which is occupied at present by specimens illustrative of plant-diseases.

# ECONOMIC COLLECTIONS.

#### Rooms II.-IV.

The contents have been arranged in the more commodious upright cases supplied in Room II., and Room IV. is being similarly re-eased. The re-arrangement of the collection of fossil plants has been commenced and has already revealed several valuable additions to our knowledge of the Irish fossil flors.

# rai valuable :

The lighting of this Room is very unsatisfactory.

T. Johnson.

# LIST OF DONATIONS.

Adams, J., M.A.—
Specimens of Lecidea contigua from the shores of Upper Lough
Bray, and Rhizocarpon petraeum, Devil's Glen.

Barrington, Richard M.—
Two volumes of dried specimens of Seaweeds, being vols. 6 and 7
of John Reilly's Herbarium.

Director, Royal Botanic Gardens, Kew-

One hundred and four Economic specimens.

Moore, Sir F. W., Royal Botsnic Gardens, Glasnevin-

Two samples of Fibre (1) Phormium tenax grown at Glasnevin.

(2) The Sisal plant grown in Italy.

Salmon, C. E., Reigate—
Eight sheets of dried Foreign specimens of flowering plants. Eight-

een sheets of dried specimens of British plants (critical genera).

Scully, Dr. R.—

Specimens of Polygonum sagitatum.
Thompson, H. Stuart, Dorset—

Five sheets of dried plants from Dorset.

Two sheets of Hymenophyllum peltatum from Co. Kerry.

Specimens of Spartina Townsendi from near Poole Harbour, Dorset,

with three photographs showing the plant in situ.

Vaughan-Gwynn, Prof., F.I.s., Belfast—
Photomicrograph of section of Sphallopteris schleetrudahlii from

Russian Permian rocks.

Waterfall, C., Hull—

Dried specimens of Rubi from Co. Dublin.

White, J. W., Bristol—
Dried specimens of Lepidium heterophyllum var. leiocarpum from
West Gloucester.

BOOKS AND PAMPHERTS.

Agricultural Gazette, New South Wales. Vol. XXI. Agricultural Ledger. Baker, Richard F., F.L.S., and Henry G. Smith, F.L.S.— A research of the Pines of Australia.

Barrington, R. M., F.L.s.—
Ninety-four Botanical Pamphlets.

Board of Agriculture and Fisheries, England— Leaflets 110, 137, 179, 207, 228, 230-232, 234-239, 243 and 244.

Botanic Gardens and Government Domains, N. S. Wales— Report for year 1909. Contributions from United States National Herbstrium—

Contributions from United States National Herbarium— Vol. XIII., Nos. 2-7. Vol. XIV., Nos. 1 and 2. Cooke, Mrs., 5 Morehampton Road—

Atlas of Japanese Vegetation (Set VIII., 54-62).
Imperial Department of Agriculture for West Indies.—
Nos. 63 and 64.

Johnson, Prof., p.sc., p.l.s.—

Agricultural Seeds and their Weed Impurities.

Journal of the Board of Agriculture and Fisheries, England—

Vol. XVII.

Journal of the Department of Agric. and Technical Instruction Ireland.

Vol. X., Nos. 3 and 4; Vol. XI., Nos. 1 and 2.

Louisiana State Museum, The— Bulletin No. 1.

Maidon, J. H., F.L.S., Royal Botanic Gardens, Sydney— Critical revision of the Genus Eucalyptus. Vol. II., Nos. 1 and 2. Pethybridge, Dr. and J. Adarns, M.A.—

Proceedings of the Royal Irish Academy, Vol. XXVIII., Sect. B., Nos. 4 and 5. Records of the Botanical Survey of India.—

Vol. IV., No. 4. and Vol. V., No. 1.

Schimmel and Co., Leipzig— Semi-Annual Report, October, 1910.

Sutton and Sons, Reading—
The laying out of Golf Courses and Lawns. (2 Pamphlets).

Tilden, Prof. Josephine—

Minnesota Algae, Vol. 1.

Tropical Agriculturist, The, Ceylon—

Vol. XXIV., Nos. 4 and 6.

Trustees of the British Museum—
Guide to Mr. Worthington Smith's drawings of Field and Cultivated
Mushrooms and Poisonous Fungi.

West Indian Bulletin.—
Vol. X., Nos. 3 and 4. Vol. XI., Nos. 1 and 2.

#### APPENDIX VI.

#### REPORT OF THE CUSTODIAN OF THE MINERAL AND GEOLOGICAL COLLECTIONS.

Owing to the formation of a Studentis' Room in Annews Room III, the collection of ignous and metamorphic rocks was transferred to Annexs Room III. where additional space was provided for these and for the inherent already arranged there. The collection of characteristic fessils was transferred to the care of the Keeper of the Natural History Collections, making the contraction of the Collection of the Collection of the Collection of the models of crystals was screaged for the same room, one as to be necessible

to students.

A series of minerals and rocks was arranged for deposit on loan at the
Ringsend Technical School.

rengisear Technical School.

The new space available in Annexe Room III. allowed of the expansion
of the Irish Mineral Series and the General Collection of Minerals, greatly
to their advantage, since many specimens had previously been placed far
back on the shelves, where proper lighting was impossible. Models of
volcania areas in the Mediterranses never acapended in the same room.

Among the additions made by purchase were :-

Branching calcite and a large block of crystallised hemimorphite from Mexico.

Native tantalum from the Altai Mountains.

Large slab with quarts crystals from Kilmorna, Listowel. A polished specimen of a dyke of dolerite penetrating granite and faulted, from Minnesota.

The following gifts were received :-

Alluvial gold, California; from Mrs. Gainfort.

Thirteen specimens of metallic ores and silicates from the Allihies, Blackball Head, and Kenmare area; from H. Walker, Eq. Gyrolite, in basalt near Belfast; from R. Bell, Esq.

Six specimens of iron and manganese ores, Minas Geraes, Brazil; from J. C. Oakenfull. Esq.

Limonite, rose quarts, and six lime-garnets, Co. Donegal; from the Geological Survey of Ireland.

# APPENDIX VII.

GRENVILLE A. J. COLE.

New wall-cases have been added viewer formerly a gap occurred in the series, and those have allowed of an extension of the collections illustrating special Miemater of the Survey. Progress has been made with the common special Miemater of the Survey. Progress has been made with the common special Miemater of the Survey. Progress has been made and arranged in the commiles was displayed, in time for the meeting of the Road Congress in Dulls in 10 II. A number of fossion layer been habelined and arranged in the John and 10 II. A number of fossion layer been habelined and arranged in the adopted. A large block of fine-grained diorite and other specimens, Fisher Pitmeth of the Departman, cleand, have been presented by the

> Grenville A. J. Cole, Director of the Geological Survey of Ireland.

#### REPORT OF THE BOARD OF VISITORS

#### OF THE

NATIONAL MUSEUM OF SCIENCE AND ART, IRELAND, AND THE ROYAL BOTANIC GARDENS, DUBLIN,

For the Year ending 31st March, 1911.

To the Department of Agriculture and Technical Instruction for Ireland.

The Board of Visitors submit the following as their Report for the year ending 31st March, 1911.

#### NATIONAL MUSEUM.

On the 12th April, 1911, the Visitors having invited the attendance of the Director, Count Plunkett, made their annual inspection of the Museum.

Before considering the different divisions in detail they desire to present the following general observations:

The Visitors notice with regret that there has been a continued decrease in the attendance of the public. The number who passed through the turnstiles in 1910-1911 was 270,381. as against 279,325 in the previous year, the decrease being 8,944. They are, however, pleased again to observe that the number of serious students who make use of the Museum is rapidly increasing. This year the numbers recorded were 706 in the Natural History Division, 354 in the Botanical Division and about 50 in the Art Division, including 30 students from the School of Art who are constantly studying the collections under the supervision of a teacher, making altogether 1,110 as against 794 last year. In addition to these there are the large number of students who attend courses of Lectures on artistic subjects in the School of Art which are illustrated by specimens sent from the Museum for the purpose, so that the number of students in the School of Art who practically benefit by the Museum is very considerable.

The Visitors note with pleasure that the Committee of officers have arranged for the publication, quarterly, of articles on subjects connected with the Museum by members of the staff, that the Department has agreed to publish these contributions in the first instance as part of its Journal, and subsequently to reprint the articles in pamphlet form as a

Visitors believe that this will have the great advantage of making the collections more widely known. The following Parts and Chapters of the General Guide to

the Art Collections have been published during the year:-

Part VII. Chapter III. French Pottery (illustrated).
.. VIII. ... III. English Furniture (new edition).

,, vIII. ,, III. English Furniture (new ed

,, IX. ,, II. Medals (illustrated).
XV. Ivories (new edition, illustrated).

,, XV. Ivories (new edition, illustrated).

An illustrated catalogue of the Falkner Lean Collection of Pottery has also been published. In the Botanical Division a Hand List of the Irish Flowering

Plants and Ferns has been published.

The Halfpenny Short Guide to the Museum is in its forty-

inth edition.

A second edition of the Illustrated Guide to the Celtic

Antiquities of the Christian Period has been published by the Royal Irish Academy and is now on sale. The Visitors learn with satisfaction that the following

The Visitors learn with satisfaction that the following recommendations contained in former Reports in reference to the staff of the Museum have been adopted: Arrangements have been made by which the amount of time

Professor Johnson is enabled to devote to Museum work has been very largely increased, and the Museum now receives his full time services during about eight months in the year, instead of about one hour per day as was previously the case.

The Treasury has also adopted their recommendation by increasing the emoluments of Mr. Dudley Westropp, and placing him in a more permanent position.

The Visitors learn with satisfaction that the Department has given Miss Knowles an opportunity of studying Cryptogamie Botany (lichens) under Miss Lorrain Smith at the British Museum, by which her usefulness in the Museum will be increased.

The Visitors are strongly of opinion that Miss Knowles's salary should be raised, and they are confident that the authorities will agree that the responsibility of her position and the character of her work have not, so far, received proper recognition, as pointed out in former Reports.

The Visitors are glad to learn that a portion of the Temporary Annexe has been fitted up as a Lecture Theatre, and that the Director and staff of the Museum have organised a course of Lectures on the following subjects, illustrated by the collections:

Count Plunkett . "The National Museum."

PROFESSOR COLE . "Volcanoes as illustrated by the Models in the Museum."

DR. SCHARFF "Animals of Ireland."

Professor Johnson " Irish Types of the World's oldest land Plants."

MR. BUCKLEY "Hand-made Lace."

Mr. Armstrong "The Early Portion of the Bronze

Three of these Lectures were delivered in March last and were very well attended, the average attendance being 101 per Lecture. The Visitors welcome this departure as an important one which should be of great utility by drawing public attention to the advantages which may be obtained from a serious study of the collections. These Lectures impose a considerable amount of extra labour on the members of the staff, who are already fully occupied, and have therefore to prepare for, and deliver, the Lectures after official hours. The Visitors trust that considering the usefulness of the object attained, the Department may be able to obtain for the Lecturers some extra remuneration.

As regards the buildings of the Museum, the Visitors note with satisfaction that an additional portion of the basement of the new Museum building has been cleared and fitted up as a temporary exhibition gallery for the Loan Collection deposited by the Royal Society of Antiquaries of Ireland. The Visitors have again to call attention to the want of

a proper office and workroom for the Keeper of Irish Antiquities, and they regret to find that no attention has been paid to their former recommendations. The room on the first floor which is now used as an office is urgently required for exhibition purposes. The Visitors, with the assistance of the late Sir Thomas Drew, submitted a scheme which could have been carried out at a moderate expense, and which would have attained the desired object.

The Visitors regret to learn that the scheme for the erection of a new wing across the east side of Kildare Place has been postponed until after the completion of the public offices in Merrion Street. This wing is urgently required so as to bring the Botanical and Geological exhibits into close proximity to the Zoological collections, and they trust the Department will use their influence with the Treasury to have this work put in hands without delay. The Visitors have again to call attention to the leaky con-

dition of the roofs and skylights of the Temporary Annexe. They see no reason why these roofs should not be put into proper repair; their present condition is unseemly in an institution such as the Museum, and a danger to the valuable con-

tents of the galleries.

The walls of some of the rooms in the new Museum buildings. notably the Music Room, No. VII., Ground Floor, and the Japanese Room, No. VII., First Floor, are in a damp condition

and demand immediate attention

The Visitors renew the recommendations contained in their previous Reports that the skylight in Room V. in the Botanical Division should be increased in size so as to admit more daylight, and they also suggest that platforms should be erected in Rooms III. and V., so as to bring the workers with microscopes on a level with the sills of the windows. This is required, as, owing to the height of the windows from the floor, microscopic work, which is of the greatest importance in the Botanical Division. is impeded.

The Visitors are still of the opinion expressed in their Report of last year that in view of the increased accommodation provided in the Museum for exhibition purposes, the number of Attendants is too small to adequately protect the collections The Visitors again point out the desirability of having the

and keep the furniture and fittings in proper order.

Courtyard paved with asphalt, wood, or some other suitable material, in order to minimise the amount of dust, mud, and gravel carried into the buildings by wind and on the feet of visitors, and they understand that a similar recommendation has been made by the Council of Trustees of the National Library. The Visitors again call the attention of the Department to the

inadequate amount provided for purchase of specimens, which has to be spread over such a very large field as that covered by

the Museum.

The Visitors note with pleasure that they have had the assistance of Mr. White, the Chief Clerk and Second Officer of the Science and-Art Institutions, in the preparation of the present Report by the extension of his term of office from 24th February to 30th September. Mr. White has been in the public service since the 28th September, 1864, and he was appointed by this Board as its Secretary on 26th April, 1882. For the long period of twenty-nine years the Board have had the advantage of his intimate acquaintance with the circumstances and practical working of the Museum, and they deeply regret that the Rules of the Civil Service necessitate his retirement from the post of Secretary to the Board.

#### ART COLLECTIONS.

Central Court.—The indefinite postponement of the building of a New Wing prevents any radical change in the arrangement of this portion of the Collection. A notable collection of English Pottery Figures, lent by Mr. Frank Falkner, recently exhibited at Salford, is displayed in five cases. An instructive Catalogue, profusely illustrated, of this Loan Collection, is on sale at the Museum. The Visitors wish to testify their appreciation of the kindness of Mr. Falkner in lending so interesting an exhibit, and to congratulate the Director on its acquisition.

A Loan Collection of Embroideries and Ecclesiastical Vestments from the Victoria and Albert Museum is also displayed in the Central Court. Among recent acquisitions is a reproduction of a portion of Stained Glass Window in Winchester College Chapel,

Lower Gallery.—The Visitors note with satisfaction Miss Bastable's loan of a collection of small Table Silver, and Mr.

Talbot Hughes's collection of French Costumes.

The re-arrangement of the Coins and Medals, to which attention was called in the last Report, has been completed. Mr. Dudley Westropp is to be congratulated on the arrangement of the collection, and on the completion of the excellent Illustrated Catalogue that he has compiled. Some additions have been made to the section devoted to French Medals and

Plaquettes of the Roty School. The Speaker's Robe of the Irish Parliament worn by Lord

Oriel, and a Freedom Box of the City of Dublin, 1741, are important additions. Room VII., Ground Floor.—No important additions have

been made to the collection of Musical Instruments.

Room VIII., Ground Floor.-No change. Room X., Ground Floor.—No change.

Gallery .- A Loan Collection of Miniatures, the property of

Mr. J. T. Andrews, is on view in the Gallery. The Collection of Lace has been added to, and the Visitors hope that the expansion of this most useful exhibit will not be checked for want of space.

Rotunda Gallery.-Some Cartoons of Stained Glass Windows have been added to the walls of the Rotunda Gallery, but the

ultimate arrangement of this portion of the Gallery appears to be still under consideration.

With regard to the Collection of Silver, the Visitors would like to suggest the possibility of entering into negotiations with the Director of the National Gallery regarding the ultimate transfer of the Silver in the Milltown Collection to the National Museum.

Room V., First Floor.-The Collection of Weapons has been re-arranged, but their proper exhibition is hampered by

want of space.

Room VII., First Floor.-A fine suit of Japanese Armour has been recently acquired.

Room VIII .- The Longfield Collection is on view in this Room, pending its distribution among the general collections, A valuable Collection of Nailsea Glass, and some specimens of Irish Glass have been added. There is also a Loan Collection of Chinese Porcelain lent by Mr. J. T. Andrews. The Visitors are glad to recognise Mr. Andrews' kindness in allowing this

collection, as well as the Collection of Miniatures referred to above, to be placed on view. Room IX., First Floor.—A Collection of Chinese Costumes in

miniature has been added.

Room X., First Floor.—The Collection of Photographs of Lace has been increased. Passage Room I.—The Lord Dunraven Collection of

Architectural Photographs has been completed.

#### ETHNOGRAPHICAL COLLECTION.

This Collection is at present housed in Room III. on the Ground Floor. There is little to say that has not been already recommended, want of space preventing Mr. Buckley, the Keeper, from showing some of the objects at all, and from showing any of them really adequately. To some extent this will be improved by the proposed arrangement of a con-tinuous case along the principal wall; the Visitors however recommend very strongly that the pilasters along that wall be removed, and so avoid the loss of 8 inches of floor space the whole length of the gallery. The Visitors understand that this was recommended before, but the Board of Works objected on the ground that should this long case ever be removed, the appearance of the gallery would be spoiled. The Visitors have no hesitation in saying that on the contrary the room would be very much improved were these pilasters removed and corbels arranged to take their place. But this new arrangement will only enable Mr. Buckley, the Keeper, to display better the objects in the existing cases, and the Visitors cannot see where room is to be found for Dr. Usher's collection and part of the Davidson-Houston collection now in store, and how it is possible to accept specimens or collections such as the Cingalese objects which it is believed have been offered through Captain Wilkinson. The Visitors note the loan of a small collection of Mexican Antiquities in Bronze, Stone and Pottery, by W. J. Campbell, Esq.

# EGYPTIAN COLLECTION.

In Room II. there is no available space for the additions from the Egyptian Exploration Prud which are at present not arranged. On the other hand, the Visitors think that much of the stuff sent, which is mainly of pottery and very fragmentary, is practically useless from an educational point of view, and the Visitors think the Director might quite resonably ask that fewer of these should be sent, and, if possible, one or two more important objects substituted.

# GREEK AND ROMAN ANTIQUITIES.

Room I. is very much crowded, and the collections suffer accordingly. The Visitors note a collection of Early Minosan and Cretan objects, lent by Professor Father H. Browne of the National University, which represents the link between Egyptian and Grecian Art from 3500 B.C. or thereabouts, and which he has deposited in return for the facilities shown to bis pupils for study by the Museum. The Visitors think it is eminently satisfactory that there should be this give and take

between the University and the Museum.

The Visitors are of opinion that the casts of the Classical Statues at present in the Rotunda would be of more use if removed to some place where students would have some chance of studying them, and they suggest that it might be possible to place them in the big Annexe together with other easts of statuary, Egyptian, Classical and Italian Renaissance, in order to show the development of that art through different periods, and in different countries. If that could be arranged, they would further suggest placing the Foley and Hogan casts in the Rotunda, and bringing down from the gallery to the ground floor of the Central Hall the Celtic Crosses and casts of Irish Architecture. There would thus be a certain amount of consistency in the Central Hall, which tends to be overcrowded with casts of all styles. To do this it would be necessary to remove the Engineering Models from the Annexe but the Visitors imagine that the greater part of these are long superseded, and quite useless for any purpose.

The Circulation Cases would also have to be removed; and as they are birds of passage it would be better to have them on walls less well lit than those of the Annexe, which are adminably suited for the permanent arrangement of casts. The Visitors think that they could be quite well shown in the temporary building used as a lecture theatre, or better if another temporary building were erected close to the Lecture Theatre on the vacant site at the rear of the Engineering School of the

new College of Science.

# INDUSTRIAL COLLECTIONS.

These Collections remain practically in the same condition as when reported upon last year. There do not appear to have been any additions of importance, nor does it seem to be possible to accommodate anything more in the limited space available, which is already overcrowded.

# CIRCULATION COLLECTIONS.

The decrease in the use made by various Bodies of these Collections, noticed in last year's Report, appears to continue. The number of cases issued during the year was 472, being a decrease of 117, as compared with the year before.

There were eight new cases added during the year, mostly connected with the industrial portion of the work and artistic crafts, the total number of cases now available being 326.

The Visitors are sorry to have to call attention to the fallingoff in the use made of these cases and hope that steps may be taken to encourage Institutions interested in the various crafts illustrated to take more advantage of these Collections.

#### IRISH ANTIQUITIES.

The Collection, though but few alterations have taken place since last year in its arrangements, has, during the interval. been enriched by many valuable additions. We need do little more than enumerate the principal of these. A set of gold lunulac, found in County Cavan, was recently purchased. A set of stone moulds has been purchased from Mr. S. F. Milligan; one of them is of unique interest, being intended to east sickles of a pattern found on the Continent of Europe but hitherto unknown in the British Isles. Mr. Richard J. Ussher, of Cappagh, County Waterford, presented a set of objects from the hut sites, middens and shell mounds of Iniskea, County Mayo, Dr. Colley March has also made a very acceptable presentation, in view of the rarity of recorded finds in the primitive forts of Ireland and of the importance of the enclosure in which the objects were found, Dun Aengusa in Aran. It consists of (1) the hinged ring of a bronze pin, the acus is missing, but it has a cable pattern and a socket for setting some object. The Museum hitherto had only an inferior specimen. There is one perfect example (5th to 10th century) in the British Museum; (2) a leaf-shaped arrow-head of chert; and (3) a small worked flint. Five out of the six urns, found with flint implements in a cairn in the Fort of Dunruagh, County Tyrone, have been repaired, and, with the implements, are now exhibited. Mr. Richard Moss, Registrar to the Royal Dublin Society, has presented a stone lamp, on which he has recently published a paper in the Proceedings of the Royal Irish Academy. A finely decorated urn from the Greenhills, County Dublin, purchased from the Longfield Collection, has been repaired, and set up in the case with the cist and other urns from that escar. Additions to the Collection of Stone Celts have been made from two hitherto unrepresented counties, Waterford and Longford; also twelve flint fabricators from County Antrim, the first specimens of the kind in the Collection. The descriptive labels in the torc and bead cases are now almost complete, so is the general labelling in Room III. One new case containing house furniture on one side and a collection of leathern shoes on the other, has been arranged. Some 45 objects in all have been added, exclusive of the valuable collection of Japanese stone implements of the Neolithic and Dolmen Periods, presented by Dr. G. N. Munro, an important accession for comparative archeology.

Mr. Griffith's presentations in 1848-1844 of the stone implements found in the opening of the fords on the Shannon by the Shannon Commissioners, have received a valuable addition this year by Mr. T. P. S. Crothwaite having presented 88 stone celts, found in the ford of that river at Killaloe Bridge, with a flint arrow-head found near the Tipperary shore, and a brozer ring pin, found at the bridge, on the upstream side. Many of these implements being of the adac type, must have been set

transversely, and were probably used for making dug-out cances, for which purpose the site was very suitable, as there was no other point at which the river could be waded from Killaloe to Keel, about four miles from Banagher, and great forests covered the mountains on the Clare shore till the middle

of the eighteenth century.

A very important Loan Collection must be most briefly noted, that of the Royal Society of Antiquaries of Ireland, recently removed from Kilkenny and arranged in the southwest wing of the Crypt. The results of the excavations in the five Dunbel Raths, County Kilkenny, near the Kilkenny and Waterford Railway (showing the early origin and long occupation of these earthworks down to at least the fifteenth century), are noteworthy. They include implements of stone and bronze, jet beads, a raised inscription in metal work of the fifteenth century, and other objects.

A new edition of the Catalogue of Irish Coins is about to be issued, and third editions are on the point of being published of the Handbooks to the Irish Ethnographical Collection and to the Antiquities of the Christian Period; these new editions are fully illustrated.

Zoology.

Since the last Report the work of arranging the exhibits in the large lower room devoted to the animals of Ireland has been steadily carried on, and many interesting additions have been made. Among these latter are some beautifully prepared groups of mammals, including badgers and foxes, and also some fine exhibits illustrating the habits of birds. Two large cases containing a striking collection of remains of animals now extinct and obtained from caves and lakes, bogs and other denosits in Ireland, have been arranged effectively near the entrance at the east end of the Main Hall. Here may be seen most interesting examples illustrating the types of mammoth, hyæna, bear, wolf, reindeer, horse, pig, goat and wolf-dog, which in early times inhabited our island. It is to be hoped that the large wall cases along the north side of the hall will soon be prepared for the reception of specimens. The walls and ceiling of this hall are very dirty; the Visitors again urge that they should be painted a light colour. The prismatic glass introduced into all the windows on the south side of the hall has improved the lighting to a considerable extent, but the illumination is still very defective.

The Visitors hope that a really satisfactory plan is in existnce for a worthy entrance gate and drive from Merrion Square to the main door of the Natural History Museum, and that it will be carried out at the earliest opportunity. No change has been made in this entrance since the last Report.

Among the recent acquisitions, on view in temporary cases

and not yet placed in position, are a beautifully executed

enlarged model of the common house fly, a magnificent example of the skull of the extinet salver tooth their from California, and a number of large moths, including very fine examples of the exquisite ornithopters. Especially interesting is a model of a exquisite ornithopters. Especially interesting is a model of a complete of the more common marine invertebrate animals found round about our coasts. This model has been prepared by the Staff of the Museum and has been much studied and admired by visitors.

Since the last Report a partition has been creeted dividing the students? room from the passage, of which it formerly was a part, and a few small tables have been placed at the disposal of those desting to examine the specimens available for study. The change has been a great success and has resulted in a large increase in the number of students. This is indicated by a book kept for their signatures. It is most gratifying to notice that the specimens to which free access is afforded have been treated

carefully by the students

In spite of the strong protest raised by the Visitors the old Cattle Shed Rooms Annexe I., II., III., IV., and V., are in as bad a condition as ever, and apparently no steps are being taken to rebuild them. The roofs, walls and floors are hideous, and in spite of the repairs mentioned in the letter of 5th December, 1910, the roof remains in such a condition that trays of sawdust are still required in many places to catch the rain which comes through. In the hope that reiteration of their complaint may convince the authorities of the necessity and urgency of a sweeping change, the Visitors again raise a protest against these old sheds, with their dirty, leaky roofs, rough, unplastered walls and uneven flooring, being retained as part of the great National Museum of Ireland. The Visitors urge, once again, that the removal of these disfigurements should not be postponed, but that an extension of the Natural History Section should be undertaken at once.

In their last Report the Visitors drew marked attention to the want of accommodation for the Natural History specimens used for study and research, and not usually exhibited to the public. The importance of these working Collections was pointed out in the Report and also in the letter of the Visitors dated 6th March, 1911, to the Secretary of the Department of Agriculture and Technical Instruction. Since last year an underground store for spirit jars and for specimens preserved in alcohol has been built, but no additional space has been provided for the cases which at present block the landings, the staircases and the workrooms of the Keeper and his assistants. The matter is of pressing need, and the Visitors urge that something may be done to relieve it during this year. They suggest the removal of the old shed to the right of the door, leading from the yard, to the Zoology workrooms, and the erection in its place of a two-storied building with a cellar extension from the new spirit store. This building could be entered on the upper floor from the stairway near the Keeper's workroom, and would be most conveniently situated for purposes of admin-

istration and supervision.

Judging from the letter of the Assistant Secretary, Office of Works, dated December 29th, 1910, the Visitors fear that those responsible for the welfare of the Museum have failed to recognise the importance of these study and research collections, and the urgency in the matter of providing for them safe and proper accommodation.

# GEOLOGY AND MINERALOGY.

During the past year the work of arranging the Collection of the Geological Survey of Iteland in the curved gallery has been continued. Some additional cases have been provided, and a series of specimens illustrating building stones, and stones used for paving and road metal is in process of arrangement. The large war of the continued of the process of arrangement of the continued of the contin

The Visitors hope that, as suggested in their last Report, teps will be taken to have the names of the localities engraved on the Irish marbles which adorn the Rotunda and Entrance Hall of the Museum. Very great interest attaches to these beautiful examples, but, except for a few almost illegible names on dirty paper labels, no indications of the districts from which

they were obtained are available for the public.

#### BOTANY.

Year by year the inadequacy and unsuitability of the accommodation provided for the display of the Botanical Collections becomes more and more apparent. The specimens are housed high up on the top floor of the part of the building, otherwise devoted to the Art Collections, and far away from all the other Natural History objects. Fine rooms with historic and the contract of the commodation for botanical exhibits.

The extremely useful and instructive teaching series, designed for the use of students, is accommodated in the hand-some Entrance Lobby from which the other rooms open. The interesting manner in which the various structural types are arranged and explained deserves the highest praise, and one must repret that the room is so unstituble for the serious kind of study for which the conditions of the structural types are also study and the success that the structural types are proposed by the structural types are provided space, has been achieved makes it the more regrettable that opportunities are not provided on a proper scale for the illustrate.

tion of the diseases of plant origin which affect the trees, fruit and crops of Ireland. The adequate display of the known facts regarding the vegetable diseases which infect the potato, flax, oats and fruits, etc., grown in this country, and incidentally the scientific explanation of the methods used for their cure and prevention, would, in the opinion of the Visitors, not only be a great attraction, but would undoubtedly prove of service to the agricultural interests of Ireland. In another way the usefulness of the Botanical Section needs development. At present nothing is being done to extend the sub-section devoted to the economic aspect of the Collection. The Visitors would like to see on exhibition fine specimens illustrating the character of the timber which can be grown in Ireland, and scientifically arranged cases illustrating the flora of Ireland, and of other countries, which are of interest economically. The named Collection of willows and the exhibits indicating their economic uses, shows how interesting and useful other groups might be made, if only opportunities for their collection and display were afforded.

There is no doubt that the ideas, energy and enthusiasm necessary to make the Botanical Collections one of the great extractions of the National Museum, are merely held in check by the restricted and unsuitable space and accommodation provided. The whole question of extension, however, is in abeyance

for want of space. The Visitors again desire to press upon the authorities the urgency of providing the necessary accommodation at once by undertaking the building of the new wing proposed for the extension of the Natural History department. By so doing, they will not merely enable the Botanical Colletions to be placed in their proper position—Le, near the zooletions to be placed in their proper position—Le, near the zooletic property of the property

In the meanwhile the heating and ventilation of the rooms are both still defective. The Visitors are of opinion that open fires should not be used, and that the connection with the main heating apparatus should be improved. The windows in some of the rooms might, with great advantage, be made to open and, as suggested in the last Report, roof-slights might be introsance condition of discomfort as last year. Nothing has been done to improve the artificial lighting of the rooms.

The old-fashioned electric lights are quite useless, and unless it is found possible to replace them by others more powerful, the Visitors feel that little can be gained by opening the Botanical Section after sunset.

The Visitors are glad to note that additional new and very suitable cases are being provided for Room IV. The Visitors hope that further additions will be made to the fine series of microscopic sections of the fossil plants, for which an excellent means of exhibition has been devised. The stereoscope and the microscope mounted in the large room are much appreciated by students.

## ROYAL BOTANIC GARDENS.

The Visitors inspected the Gardens on the 12th April, 1911. They found them as on former occasions in excellent condition.

The number of visitors to the Gardens during the year ending 31st March, 1911, was 404,152, as against 430,426 for the corresponding period in the preceding twelve months.

Some important improvements have been made during the past year:—On the hillside where so many trees were blown down during the gale of 1903, the substitution of good mould for the poor shallow soil and gravel has been continued, and is now nearly completed.

The rock-garden has been further extended. It is proposed in the next year to increase its dimensions to a considerable extent, and a sum of £50 has been included in the Civil Service Estimates, Class II., for this purpose. When this work is finished, and the rock-garden furnished with plants, it will form one of the most attractive, and interesting features of the Garden.

The Visitors proceeded to inspect the Houses. They found the Fern House No. I. in good condition, but it would be improved by an extension of the case for filmy ferns on the southwest side. The Visitors are glad to find that their recommendation as to the repair of the curvilinear range of houses, Nos. IV. and VI., have been carried out in the most satisfactory manner, and that the structures have been rendered safe and lasting.

The houses generally and the pits in the yard at rere of the range of houses are in good condition, and the Visitors are glad to learn that a continuation of the Vartry water main has been laid into this yard, by which a greatly improved water supply will be afforded. The Visitors, however, note that the flowerpot shed, which is in bad repair, is quite inadequate and unsuitable, and they recommend that it be rebuilt so as to properly motect the note.

The Orehid House No. 7, has been thoroughly repaired, and is now in good condition. The Visitors suggest the removal of the high shelf round the central pillars of the house which obstructs the light. The construction of a new Orehid House is consisting accommodation in the Orehid House is quite inadequate for the purposes of a collection which is regarded by experts as the best in any public garden in Europe. As a consistent of the purpose of a collection which is regarded by experts as the best in any public garden in Europe. As a consistent of the purpose of a collection which is regarded by experts as the best in any public garden in Europe. As a consistent of the consistency of the c

The Visitors have more than once commented on the disproportion between the sums voted for the support of the Glasnevin Botanie Gardens and those expended on similar institutions elsewhere. For example, the Botanie Gardens at Edinburgh receive an amount of public money about three times greater than that expended on the Glasnevin Gardens. The Visitors regret to learn that their recommendation

that the water mains from the storage tank should be extended to the new grounds has not yet been carried out, and they hope

that this will be done in the near future.

In their Report last year the Visitors submitted a carefully prepared scheme for the rebuilding on an improved plan of the men's quarters, the refreshment room, the stables, tool-houses. stores and forcing houses. The scheme included the provision of a properly fenced yard for the receipt of goods, and a goods entrance. The Visitors learn with satisfaction that the scheme so submitted met with the approval of the Department, and was adopted by it, and the Visitors now urge the necessity of having the most pressing of these suggestions carried out at once. It is especially important that the rebuilding of the men's quarters should be taken in hands without delay. The Visitors are informed that there is no sick room in the existing structure, and that the sick and healthy occupy the same dormitory. They understand that recently a man suffering from diphtheritic sore throat had to be allowed to remain in the general dormitory, as it was found impossible to find room for him in any of the hospitals.

D. H. MADDEN, President.

10th May, 1911.

# REPORT

OF THE

# COUNCIL OF TRUSTEES

OF THE

# NATIONAL LIBRARY OF IRELAND

For the Year 1910-11

To the Secretary of the Department of Agriculture and Trounical Instruction for Ireland

As Chairman of the Council of Trustees, I have the honour to

submit the Report for the year ending March 31st, 1911.

The Library was open on 28s days. The attendances of readers numbered 20s, 501. This total exceeds that of 1909-10 by 19.285, but the working year in 1909-10 was five days shorter than in the year 1910-11. The daily average of attendances during 1910-11 was 724, the highest yet recorded.

208,501

The number of volumes added to the Library and made necessible to readers has been 5.112. Of these 781 are folio, 576 quark, and 8,835 octavo and smaller sizes. A table in which these books are classified by their subjects will be found in Appendix I, and there also will be found statistics as to the book-binding, as to the borowing by numbers as to the book-binding, as to the borowing by members and the product of the foliation of the subject of the subject of the subject of the public bodies.

Proofs of the whole of the Author and Title Catalogue for the year 1908 have been received. The books acquired in the year to which this volume relates were more than usually numerous. The Catalogue for 1909 is now being prepared for Press, and in it are incorporated slips written by Mr. Vine some years ago for works in the Sections Irish History and Irish Topography, previously catalogued unsatisfactorily.

In dealing with the Decennial Subject-index of Works added to the Library during 1894-1903, the printers have moved rather slowly, and the Trustees feel disappointed by the fact that this Index is not already at the service of inquirers. However,

proofs have now been received down to the letter W. It is hoped that the work may be issued at least before the close of the present year. Meanwhile, a Subject-index of publications relating to the Irish Language and Literature has been in course of preparation. Particulars will be found in the Annual Report of the Librarian.

In Appendix I, the Trustees not only record the names of numerous donors, but note a series of the more remarkable gifts. Here, in the Report proper, they desire to mark their sense of the generosity of Lord Crawford in presenting his magnificent Bibliotheca Lindesiana, or privately printed Catalogue of the Library at Haigh Hall, and also the Catalogue of Tudor and Stuart Proclamations. Further, they would call attention to the list of works presented by Father Coleman, O.P., particularly as it well indicates how by donation the Library is enriched with valuable old books, for the purchase of which its funds might not be sufficient.

In January, 1911, it was notified to the Trustees that the Treasury had acceded to their application, made some time since, recommending the appointment of a typist and stenographer to aid, as Secretary to the Librarian, in correspondence and in the discharge of office work—the engagement to date

from the 1st April.

The Trustees regret that the Board of Works has not found it possible to place on the Estimates for the present year important additions to the shelving of the Architecture Room and the Delivery Room, pressed upon the attention of the Board in the past, and now much needed. Upon this subject the Trustees. at their Meeting of January 27th, 1911, forwarded a Resolution.

The Trustees have pleasure in noting that an extension of space for newspaper accommodation has been secured during the year. A distant section of the basement—that part near the East Wing-has been walled off, and provided with a fireproof iron door. A hitherto inaccessible chamber has been, besides, brought into connection and floored, the electric light has been introduced throughout, and the ventilation improved. Here a large number of the newspapers least in use may be

placed, a relief to congestion in the nearer part of the book-store. By direction of the Trustees the Librarian attended two of the International Congresses held at Brussels in 1910 in connection with the Exhibition there-the Congrès de Bibliographie et de Documentation and the Congrès des Archivistes et des Bibliothè-

caires, which occupied the week August 25 to 31. By direction of the Trustees, the Annual Conference of the

Library Association at Exeter, in the week beginning September 5, 1910, was attended by Mr. W. K. Magce, B.A., Second Assistant Librarian.

The Trustees submit the Annual Report of the Librarian, which deals with certain sections of the internal administration of the Library in greater detail.

In this Annual Report, the thirty-fourth since the foundation of the National Library of Freland, the Trustees desire to express their regret at parting from Mr. H. Bantry White, I.S.O., upon his impending resignation. Mr. White for about thirty years has acted as Keeper of the Minutes and Registrar of the Council of Trustees, and also as Chief Clerk and Excentive Officer of the Administration of the Science and Art Institutions. The Trustees would place on record their cordial appreciation of the Minutes of the Administration of the Science and Art Institutions. The Trustees.

White, assume the Council of the Administration of the Administration of the Science and Art Institutions. The Crustee of the Administration of the Science and Art Institutions. The Crustee and Administration of the Administration of the Science and Art Institutions. The Crustee and Administration of the Administration of the Science and Administration of the Administration of the Administration of the Administration of the Minutes and Administration of the Administration of the Administration of the Administration of the Minutes and Administration of the Minutes and Administration of the Administration of the Minutes and Administration

T. A. FINLAY, Chairman.

26th May, 1911.

#### APPENDIX I.

#### STATISTICS AND LISTS

Subjoined is a statement of the total attendances of readers and the daily average since the Library was founded in 1877:—

YEAR						ATTEND-	
						ANCE	AVERAGI
		lete year				27,452	99
		in Leinst				51,325	174
		le record	after tre	nsfer, 18	90, to		
	present b	uilding,				113,888	388
1894,						119,500	404
1895.						125,500	427
1896,						136,365	462
1897.						137,832	470
1898.						142,218	486
1899.						154.878	529
1900.						148,405	506
1901 (J.	anuary—I	March)				40,763	536
1901-190	2					150,780	518
1902-190	3					174,786	588
1903-190	4,					181,385	619
1904-190	5,					198,274	677
1905-190						193,462	658
1906-190						178,974	619
1907-190						190,657	646
1908-190	9					188,596	673
1909-191	0					189,266	668
1910-191						208,501	724

ANNUAL STATISTICS OF BOOKS "CATALOGUED AND MADE ACCESSIBLE TO

YEAR				37	OLUMES	
1895.						
			 		2,451	
1896,			 		2,363	
1897,			 		2,802	
1898,			 		2,775	
1899.			 		3,360	
1900,			 		3.185	
1901 (Janu	arv-Mar	ch)	 		826	
1901-2.			 		3,620	
1902-3,			 		3,635	
1903-4,			 		4,209	
1904-5.			 		6.365	
1905-6.			 		5,563	
1906-7.			 		3,946	
1907-8,			 		4.817	
1908-9.			 	- ::	4,408	
1909-10.		1	 		5,970	

the year 1910-11, may be grouped as follows:—

Bibliography, Library Economy, Book Rarities, and Cyclopædic
works.

works,
Newspapers, General Periodicals,
Philosophy,
Peligion, Theology, Ecolesiastical History,
Secology, Statistics, Political Science,
78
Political Economy,
137

			07				
Law, Parliamentar Administrati Associations, Education,							11
Parliamentar Administrati Associations, Education, Commerce, Amusements	y Papers,						33
Administrati	on,	"					
Associations,							5
Education,							11
commerce,							1
Amusements	Customs a	nd Mann	ers.				7
hilology,							14
leneral Scie	nce,						6
Mathemati	ine						- 4
Astronoma	ics,						- 4
Physics I	ight, Heat,	Electricit	ar.				5
Chorolotza		22100011011	2,				- 5
Coology							35
Dolooptole							1
Paneontoic	rgy,						ŝ
Diology, 2	ogy, inthropology	,,				::	6
Botany,							30
noomby,						• •	
Jseful Arts i	in General, fice Publica ig, e, Economy, ation, Comm						11
Patent Of	ice Publica	tions,					
Medicine,							11
Engineerin	ıg,						
Agricultur	0,						12
Domestic	Economy,						1
Communic	ation, Comn	aerce, Rai	lway Gui	des, &c.,			4
Chemical	Arts, Manui	actures,	and Trad	les,		• •	3
Tine Arts in	Common						2
	Gardening						
Lanoscape	Gardening						5
Aronitecti	ire,						3
Sculpture,	nd Design,					::	ì
Drawing a	ina nesign,						- 6
Painting,	: -						
					**	• •	
Photograp	ny,					• •	2
Music,				* *			ě
Archæolog	y,					• •	· ·
General Lite	rature.						. 5
English L	iterature (E	ssavs. Por	stry, Per	iodicals,	&cc.),		21
							7
				***			14
Italian	eratures,						4
Commist.							- 1
Total							- 3
Carrie							- 3
toreek,							- 3
trish,							- 1
General His	tory, and Travel, Genealogy.						
Geography :	and Travel.						-
Biography.	Genealogy,	Heraldry,	&c.,				1
Ancient His	tory.						
Ancient His History of	Europe,						1:
							- 1
	Asia, Africa,						
	America						
,, ,,							
" "	leconica.				4.4		
" "	Africa, America, Decanica,		**				

Subjoined is the return as to binding d	one for the	Library	during	z 1910:
In the binder's hands, Dec. 31st,	1909,			vols.
Sent to the binder during 1910	• •		4,500	**
Returned by binder during 1910,			5,340	**
Neturned by binder during 1910,		• •	4,380	**

society, and by	certain officers of the Insti	tutions of	Science	and	Art :-
In borrowers Lent between	s' hands, March 31st, 1910, n April I, 1910, and March	31 1911	to mem		122
of the l	Royal Dublin Society.				718
Lent to offic	ers of the Institutions of Sc	ience and	Art,		505
					1,345
Returned du	ring the twelve months,				1,253
In borrowers	' hands, March 31st, 1910,				92
With membe	rs of the Royal Dublin Soc	iety,			47
with omoers	of the Institutions of Science	e and Art			45
					92

The number of members of the Royal Dublin Society entitled to borrow, according to the last official list published by the Society, is 309.

The following are some of the more noteworthy special gifts received during the year:—

MISS D. E. ROBINSON, Riverdale, Terenure.—The Spectator, 1895-1903.

THE REV. CHARLES PLUMMER.—Vita Sanctorum Hibernia, 2 vols., Oxford, 1910.

THE CORPORATION OF MANCHESTER, through Alderman Plummer.—Manchester Court Leet Records, 12 vols.; Manchester Contable's

Accounts, 1612-1776, 3 vols.; 1552-1846; and other works relating to the Municipal History of Manchester.

MR. J. J. FULLER, F.S.A.—Bernard's Life and Death of Usher, 1656.

THE COUNCIL OF WENLEY COLLEGE.—A further densition of nineteen oriental works, including 3 The Debetsien, a School of Moment, transil by D. Shos and A. Troyer, 3 vols., 1843 1 Life of Shelbh Molamond All Hains, witten by himsel, ed. F. C. Belfour, 1831; Le Lêvee de All Hains, witten by himsel, ed. F. C. Belfour, 1831; Le Lêvee de Shelbh Molamond All Hains, witten and the Council of the Council of the Shelbh Molamond All Hains, which was the Council of the Shelbh Molamond All Hains, which was the Council of the Council of the Shelbh Molamond, and the Council of the Counc

MR. J. PERRY RINGWOOD, Foxrock.—Whitelaw, Warburton & Walsb. History of Dublin, 2 vols. 1818; Bilse's Life in a Garrison Town, 1904; Dear Fatherland, 1904; Beyerlein's 'Jena or Sedan,' 1904. THE UNIVERSITY OF ST. ANDREWS.—Lindsay's Early Irish Minuscule Script, 1910; Nonius Marcellus, 1901; Ancient editions of Martial, 1903; Ancient editions of Plautus, 1904; Synato of Plautus, 1907; Contractions in Early Latin minuscule MSS., 1908 (University Publications. L. VI.)

NR. THOMAS COONROR, Smethwick, Birmingham.—Upwards of sirty volumes relating principally to the history of Dublin, Including Half-day's a general property of the property

MR. R. G. J. PHELPS.—The Statistical Atlas of England, Scotland, and Ireland, 15 parts.

THE REV, A. OOLEMAN, O.P.—Clower De Official, Venice, 1561, Orotton, trunal, J. Rutherford, 1799; Pliny; De Histories Mundl, Patis, 1541; Virgil; Opera, ad. Hoyne, 1795; Hayo; Enterior Mundl, Patis, 1541; Virgil; Opera, ad. Hoyne, 1795; Hayo; Enterior Mundl, Patis, 1561; Platis, Chemondo, and History of the World, 1795; S. Augustine's Olice of Ord, 1810; Storne Fellavciner, Hasteria del Concillo di Trento, Annales Veteria Veter Zestamoni, Geneva, 1722; Petrus Annales Veteria Veter Zestamoni, Geneva, 1722; Petrus Annales Veteria Veter Zestamoni, Geneva, 1722; Petrus Annales Veteria Veter Veter Session Apparentas, 1701; Battlett Platina: Libraria Concillo Concillo di Production of Production Apparentas, 1701; Battlett Platina: Libraria Marchael Veter Session Concillo C

THE EARL OF CRAWFORD, K.T.—Bibliothea Lindssians; Cotalogue of the printed books preserved at Haigh Hall, Wigan, 4 vola., 1910; Catalogue of Tudor and Stuart Proclamations 1485-1714, 2 vola., 1910.

MR. W. P. COURTNEY.—Dodsley's Collection of Postry (one of 75

opies reprinted for private circulation), 1910.

H. WILLIAMS, M.V.O., I.S.O.—The Dublin Evening Post, 1802.

MR. J. B. S. MACILWAINE, R.H.A.—A number of Catalogues of Dublin and other Art Exhibitions, 1878-1903.

MR. FRANCIS JOSEPH BIGGER.—Scrap-book of Newspaper Cuttings, 1800-05, made by Dr. Trevor, the jailer at Kilmainham, in 1803.

MR. E. STANLEY ROBERTSON.—Upward. of 60 volumes on general literature, among them Demothemes, ed. Morel, Peria, 1579. (Score, and Long, 1873). Make 4 Ancient Les Elevir, 1661; Mann's Heriot Lose and Long, 1875; Make 4 Ancient Les, 1861; Filiago Communities, 1872; Dumont's Presiste de Bejislation circle of penals, 2 vols., 1830; Potter's Archosologio Gronz, 2 vols., 1813; Webb's Intellectation of Lokes, 1877; Bibbarkson's Arabic, Persian, and English Dictionary, 1838; Hipporates' Aplorismi, 1832; also a number of uncil volumes on Indian Law.

AN ANONYMOUS DONOR—The Naturalist's Journal (Nature Study), 10 vols., 1896-1905; American Monthly Microscopical Journal, vol. 21-22, 1900-01, etc. A list is subjoined of the names of persons from whom gifts have been received between April 1, 1910, and March 31, 1911 :=

Axon, W. E. A., LL.D. Bacon, Mrs. G. D., New York. Buer, Joseph, & Co. Bailey, Sir W. H. Ballinger, John, M.A. Ballymena Observer, Editor of. Benson, Mrs. A. H. Bernard, Very Rev. Dean. Berry, H. F., Litt.D. Best, R. I. Bigger, F. J. Blair, Miss E. executrix of late J. E. Gore. Boyd, Rev. S. T. Booth, Bramwell. Brabazon, James. Carpenter, G. H., D.Sc. Carson & Comerford, Ltd. Chambers, R. W. Coffey, George. Cole, Prof. Grenville A. J. Cole, George W., Conn., U.S.A, Coleman, Rev. A., O.P. Courtney, W. P. Crawford, Earl of, K.T. De Burgh, Alfred C. Denny, Rev. H. L.L. Dix, E. R. McC. Dunlop, G. A. Edge, J. H., K.C. Esposito, Mario. Fairbrother, Miss E. H. Flood, W. H. G., Mus.D. Fogerty, G. J., R.N. Fordham, Sir Herbert G. Freyer, Dermot. Fryer, A.C. Fuller, J. J., F.S.A. Fussell, J. H. Glynn, Joseph A. Green, Mrs. J. R. Groves, Tennyson. Gutekunst, R. Haslam, Mrs. Hart, Lt.-Gen Sir Reginald, Hulme, E. W. Irwin, Sir Alfred, C.S.I. Janet, Charles Johnson, Prof. T. Johnston, James N., New York. Kelly, Miss M. T. Kelly, Richard J., B.L. Lefuel, Madame, Paris. Legge, Capt. R. F. Lennox, P. J.

Lowry, F. M. Lyster, A. E. Lyster, T. W. Macartney-Filgate, W. T. MacIlwaine, J. B. S., R.H.A. MacRitchie, David. MacSorley, Miss. Makower, Felix. Marstrander, Prof. Carl. Maxwell, Miss C. Mewburn, Ellis & Pryor, London, Millin, J. Shannon. Montgomery, Miss. Neil, J. C. Newtownards Chronicle, Editor of. O'Connor, Thomas, Birmingham. Oldham, Prof. C. H. Orpen, Goddard H. Plummer, Rev. Charles. Plummer, Alderman, Manchester, Praeger, R. Lloyd. Purser, Miss Sarah H., R.H.A. Pursor, W. E. Quin, Lt.-Col. G. Read, Sir Andrew. Reeves, P. Oswald. Richard, Adhemar, Geneva. Ringwood, J. Perry. Robinson, Miss D. E. Robinson, E. Stanley. Ross of Bladensburg, Sir John. Rudmose-Brown, Prof. T. D. Russell, Father Matthew, S.J. Salazar, Count Lorenzo. Samuels, A. P. Saville, Marshall H., New York. Scharff, R. F., Ph.D. Shirley, John, B.Sc. Sirr, Harry. Smith, Walter G., M.D. Solomons, M. E. Steenstrup, Dr. K. J. V. Storey, J. B., M.B. Strauss, Joseph, Ph.D. Tempest, Harry G. Theosophical Book Co. Thompson & Co., W. P. Ward, Rev. J. H. Welch, R. Westropp, Thomas J. White, H. Bantry, I.S.O. White, Rev. J. D., Newport, D.D. Williams, Alex., R.H.A. Yeats, Miss, Dundrum,

Gifts have been received between April 1, 1910, and March 31, 1911, from the following Public Departments, Public Bodies, Public Institutions, and Learned or Literary Societies :-

Municipal Council of the City of Dublin. Port and Docks Board, Dublin-Belfast Harbour Commissioners. His Majesty's Stationery Office.

Lords Commissioners of H.M. Treasury. Lords Commissioners, Admiralty. British Museum.

Board of Trade. Patent Office.

Foreign Office War Office.

Office of the Registrar-General of Scotland-Astronomer Royal, Greenwich.

,, Scotland. Ordnance Survey of England and Wales. " Ireland. 77

Geological Survey of Great Britain. " " " Ireland. ,, Scotland.

" Canada. " India.

" United States of America. ,, The Transvaal. Transvaal Mines Department, Pretoria.

India Office, Whitehall. Archaeological Survey of India Department, Calcutta. Botanical Survey of India.

Government of Bombay. Department of Agriculture, India.

United Provinces Government, Allahabad. Superintendent of Government Printing, India, Meteorological Office, India.

Government of Canada. Ministry of Interior, Canada. Survey Department, Giza, Egypt.

Italian Government-Department of Mines, Ottawa. Government of Cape of Good Hope.

Department of the Interior, U.S.A. Department of Agriculture, U.S.A. Department of Agriculture, Ottawa.

Bureau of Labor, Washington.
Representative, Commonwealth of Australia, London. Commissioners of Education, Washington Department of Commerce and Labor, U.S.A. Tenement House Department, N.Y. Commissão de Expansão Economica de Brazil.

Smithsonian Institution.

Bureau of Statistics, Treasury Department, U.S.A. Coast and Geodetic Survey, U.S.A.

Ministerio de Fomento, Cuerpo de Ingenieros de Minas del Peru-Argentine Republic, Public Library Commission. Minister of Education, Ontario.

Legislative Assembly, Melbourne,

Department of Agriculture and Technical Instruction for Ireland. Congested Districts Board.

Board of Education, South Kensington, Board of Intermediate Education, Ireland. Office of Records of Scotland. Corporation of ManuSesters. Royal Society, London. Australiasin Association for the Advancement of Science. London School Board. Pharmaceutical Society of Great Beltain.

Pharmaceutical Society of Great Britai Pharmaceutical Society of Ireland. Royal Geographical Society. Botsnic Gardens, Kew. Musée Océanographique, Monaco.

First Church of Christ Scientist, Dublin.
Dublin Sanitary Association.
General Medical Council, London.
City of Dublin Public Health Office.
Royal Astronomical Society, London.

Royal Astronomical Society, London. Royal Institute of British Architects, London. Society of Accountants and Auditors, London. Chemical Society, London. Society of Arts, London.

Society of Arts, London. Australian Museum, Sydney. Pogrome Commission. Free Trade Union.

Tariff Reform League. Imperial Federation League, Melbourne. Research Defence Society, London.

Hungarian Ornithological Society, Budapest. Boston Museum of Fine Arts. Boston Museum and Art Gallery. National Museum of Wales.

Belfast Naturalists' Field Club. Belfast Natural History and Philosophical Society. Irish Agricultural Organization Association.

Royal College of Science, Dublin. Royal Botanic Gardens, Glasnevin. Dublin Fire Brigade, per T. P. Purcell.

Dubim Fire Engaces, per T. P. Purcell. Irish Unionist Alliance. Irish Central Bureau for the Employment of Women. City of Dublin Technical Schools.

Municipal Technical Institute, Belfast. Theosophical Society, London. Methodist Missionary Society, London. Royal Zoological Society, Ireland. Incorporated Law Society, Ireland.

Royal Declaration Amendment Committee. Navy League. Statistical and Social Inquiry Society of Ireland.

Statistical and Social Inquiry Society of Irele Belfast Municipal Art Gallery and Museum, Battersea Public Library. Boston Public Library. St. Helen's Public Library.

Imperial Library, Calcutta.
Bodleian Library, Oxford.
Cambridge University Library,
Library of Congress, U.S.A.
New York State Library.
Harvard University Library.
Cornell University Library.

St. Andrews University Library. Bibliotheca Publica Provincial de La Plata. Library Co. of Philadelphia. John Rylands Library, Manchester, Milwaukee Public Library. Melbourne Public Library. Newcastle-on-Tyne Central Library. New South Wales Public Library. Lowell City Library, U.S.A. Toronto Public Library. Los Angeles Public Library. Carnegie Free Library, Cork. Bibliotheca Nacional, Habana. Workington Borough Library. Wigan Public Library. Girton College, Cambridge Newnham College, Cambridge. Alexandra College, Dublina Royal Holloway College. Clongowes Wood College. Maynooth College, League of St. Columba. Wesley College, Council of. Trinity College, Dublin: The Board. National University of Ireland. Royal College of Physicians, Ireland, Aberdeen University. Queen's University of Belfast, University College, Cork. University College, Galway, University of Wales-University of Sheffield. University of Leeds. University of Liverpool. University of Manchester. University of Birmingham. University of Cambridge, Edinburgh University. Glasgow University. Harvard University. University of London. University College, London. Association of American Universities, New York University. Yale University. Princeton University. Cornell University. University of Illinois. Carnegie Foundation for the Advancement of Teaching. College of Preceptors, London. St Andrews University. Melbourne University. Dartmouth College, N.H. Sydney University. Johns Hopkins University. Chicago University. Catholic University, Washington, Imperial University, Kyoto, Japan. College of Science and Engineering. Université Egyptienne.

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The following societies present publications annually :-

The Royal Society of Edinburgh: Transactions and Proceedings. The Royal Society: Proceedings. The Royal Dublin Society: Proceedings and Scientific Proceedings and

Transactions. The Royal Irish Academy: Proceedings, Transactions and Todd

Lectures. Royal Society of Antiquaries, Ireland : Journal. The County Kildare Archeological Society: Journal.

Belfast Naturalists' Field Club : Report and Proceedings. Royal Institute of British Architects: Journal and Calendar. Society of Chemical Industry: Journal.

Sanitary Institute : Journal. Society for the Preservation of the Irish Language : Report, Royal Academy of Medicine in Ireland: Transactions. Institute of Bankers in Ireland : Journal.

The following periodical publications have been presented in the year 1910 to the National Library of Ireland, either by the publishers, or by private donors, or by public bodies :-

Alliance News.

Board of Trade Journal. Board of Trade Labour Gazette. Board of Agriculture Journal.

Limerick Field Club: Journal.

British Medical Journal

Bulletin, Department of Labor, U.S.A. Christian Science Journal.

Civil Service Competitor. Civil Service Weekly

Cuclists' Touring Club Gazette.

Department of Agriculture and Technical Instruction for Ireland "Journal." Drapers' Record.

Father Mathew Record. Free Russia.

Gentlewoman. International Theosophist (formerly The Irish Theosophist), Irish Cyclist.

Irish Draper. Irish Field.

Irish Homestead. Irish Ironmonger Irisleabhar Muighe Nuadhad.

Irish Rosary. Irish Packet. Irish Tobacco Trade Journal.

Irish Vintner and Grocer. Kew Bulletin. Musical Herald.

Nation in Arms. New Century Path. New Church Magazine.

Propriété Industrielle.

Socialist, The. T.C.D.

The following Irish Newspapers, presented during the year 1910, are filed for reference when bound :--Kerry Evening Post. Anglo-Celt (Cavan). Kildare Observer (Naas). Armagh Guardian. Ballumena Weekly Telegraph. Kilkenny Journal. Ballymoney Free Press. Kilkenny Moderator: Ranbridge Chronicle. Larne Times. Belfast News-Letter. Leinster Express (Maryborough), Bray and South Dublin Herald. Leinster Leader (Naas). Limerick Chronicle. Carricklerous Advertiser. Clare Journal (Ennis). Limerick Leader. Coleraine Chronicle. Lieburn Herald. Cork Free Press. Lurgan Mail. Cork Constitution. Meath Chronicle (Kells). Cork Examiner. Mid-Ulster Mail (Cookstown). Nationalist, The (Carlow). Nationalist, The (Clonmel). Cork County Eagle (Skibbereen). Derry Standard. Doneyal Vindicator (Ballysbannon), New Ross Standard. Northern Constitution (Coleraine). Dublin Saturday Post. Northern Whia (Belfast). Dundalk Democrat. Dungannon News. Portadown News. East Galway Democrat. Roscommon Messenger. Echo, The (Enniscorthy). Saturday Record (Ennis). Enniscorthy Guardian Sinn Pein. Evening Herald (Dublin). Sligo Champion. Evening Telegraph (Dublin). Sligo Independent. Freeman's Journal. Sport (Dublin). Galway Express. Sunday Independent (Dublin). General Advertiser (Dublin). Ireland's Own (Dublin). Tyrone Constitution (Omagh). Irish Catholic (Dublin). Waterford Chronicle. Irish Daily Independent (Dublin). Weekly" Freeman and Supplement. Irish Emerald (Dublin). Weekly Irish Times. Irish Nation. Western News (Ballinasloe). Irish News (Belfast). Westmeath Examiner (Mullingar), Irish People. Wexford People.

Irish Post (Cavan). Irish Weekly Independent. Irish Weekly (Belfast). Irish Weekly Mail. weekly papers as follows :-

Belfast News-Letters Cork Constitution. Daily Express (Dublin). Evening Mail Evening Herald. Evening Telegraph. Daily Graphic. Daily Mail. Daily News.

Daily Chronicle. Daily Telegraph. Freeman's Journal. Financial News. Figaro (Paris). Globe. Graphic. Scotsman. Illustrated London News.

Irish Daily Independent. Irish Times. Illustrated Sporting and Dramatic News.

Witness, The (Belfast). The Royal Dublin Society has con-inued its generous gift of daily and Illustration (Paris). Illustrirte Zeitung. Journal de Débats (Paris). Lady's Pictorial. Morning Post.

Wicklow News-Letter.

Wicklow People.

New York Tribune. Leslie's Weekly (New York). Pall Mall Gazette. Queen. Evening Standard. St. James's Gazette.

Sketch. Sphere. Standard. Tatler.

Times. Truth. Westminster Gaze te.

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# APPENDIX II.

#### TWELFTH REPORT OF THE LIBRARIAN, 1910-1911

#### New Series

To the Council of Trustees

In this, the Twelfth Report of the new series ordered in January, 1900, the Librarian finds it unnecessary to enter into detail as much as usual, because the activities of the year have been chiefly a steady peristence in tasks described in former years and not yet quite completed.

#### Book Arrangement

We have cererised the usual care in elseking the correctness of book arrangement: Peritudiar trouble was taken with certain sections. Thus those great volumes from all ports of the Liftenzy, placed by the Trustees in special chains in the year. Both the property of the Liftenzy, placed by the Trustees in special chains in the year. Both the property of the property of the Liftenzy of the Liftenzy of the Peritudian should be a second of with additional labelling. The English monthly and quarterly periodicals also by growth and overflowed into some disorder, and they have been re-estranged, some improvements in classification being insiderated a part periodicals, which are much used, and get hard to manage if disorder intrudes. Many other sections have been subjected to careful revision, including a portion of the oldy Collection.

# Maps

During the year further advance has been made with the Longfield Collection of Jang. This is a series of some thousands of raps of Irish Collection of Jang. This is a series of some thousands of raps of Irish variety in their shape and size renders them difficult to deal with. The aboots have now been provisionably grouped according to the counties of Ireland, This implied much inquiry in many cases where only obscure of Ireland, This implied much inquiry in many cases where only obscure them, after which they will be established.

The large General Collection of loose maps has now finally been put into order, and it is hoped that they will all be bound in a few months. One of the most valuable acquisitions of the year has been the magnificent set of maps issued with the Report of the London Traffic Commission.

which have been bound in four large volumes.

The preparation of a class-list of the fine Collection of Irish Maps has already begun.

#### Cataloguers' Work

All the new books added by purchase have had catelogue slips written for them, and a large number have been selected from various domations. for them, and a large number have been selected from various domations, works greenfed by Wesley College, Dublin, the philological monographs from the University of St. Andrews, the devotional, the objects of the contract of the contract of the contract of the contract of the and historical books presented by Father Coleman, and the gift of Mr. including a number of treatises on Indian, Isaw. Verted interest, and including a number of treatises on Indian, Isaw.

A large number of the publications of the various State Departments of the United States, which had been presented to the Library by the U.S.A. Government, have been catalogued, arranged and classified as separate monographs. Many enrich the section Agriculture, desing chiefly well perfeated points, such as milicaupply, animal and plant discusses, the production of the

#### Printing of Catalogue

The Catalogue of "Books Added during 1908" has been printed and is coming to us in page revise, and will be issued before long. Most of the copy of the Catalogue for 1908 has been prepared for Press.

The revision of the slips written for the Joly Collection (excluding the pamphlets and the music) has been completed, and the final preparation of the Catalogue for the Press will be begun when the more important pamphlets have been catalogued, and the slips for these incorporated with the general Catalogue of the Collection.

## Sheet-Music of Joly Collection

In the Report for 1907-8 reference was made to the cataloguing of this music. During the past year much work has been done in arranging the music of Irish interest. This is extremely voluminous, and consists either of Irish in learning, or or music by known Irish composers, or of music printed in Ireland. Song name the property of t

#### Desk Author-Catalogue

During the progress of the task of inserting in the Desk Catalogue the latest princile carries, there has been much rectification of that occurs of the properties of the properties of the control on in alphabetical arrangement which is due to overcrowding, to which this work is possibly labels. Mentine of many mine corrections is omitted, but the entries "Distinancy," "Distinger," "Distinger," "Distinger," "Bridling," "Distinger," "Among, "Schiller," and in sames which carried the properties of the properties o

#### Subject-Index

Attention was drawn in the last Report to the compilation in large ledgers of a Deak Index of subject references to works added to the Library between 1874-1893. This work has steadily advanced and has now reached the entry SWEDEN.

The Decomnal Subject-Index of works added to the Library during the yearn 1894-1968 at length, I am glad to report, has been set up in type and read through in galley proofs. The work of paging and revite is in progress. This usucli mixes will be issued during the course of the interval of the second of the course of the course of the cherts has been of assistance to the staff in endeavouring to meet the demands of readers. It is intended that the entries in the new volume, which will extend to more than 320 pages, shall be incorporated in the large Deak Subject-Index, thus providing in one alphabet full reference by adopt to the numerous books and officing in one alphabet full reference by the course of the course of the contraction of the contraction of 1904-1910 is to being response.

## Parliamentary Publications

A continuation has been made of the teal described in last year's Reports, Spoilal copies of Departmental works upon important subjects, Commissions, and the like, have been presented, and when bound and placed sounce other monographs in the sections to which they refer have been found very useful in satisfying enquivers, especially since their mere pressure among indired works suggest their use.

# Class-List of Irish Language and Literature

In addition to the Subject-Index of General Literature, is being proposed a special Class. List of works relating to the Irish languages and literature. The published of the Irish languages and literature of Irish languages and lite

## Books of Reference in the Reading Room

A cosm of the bodic of reference placed in the Reading Room, and consulted without hindrance by readers, was made on April 5, 1911. It was found that the 35 hook-cases on the walls contained 2,985 volumes, that the hound volumes of maps numbered 149, Partiamentary Indexes 20, and Reference Books on the Library Counter 50, maintee 20, the Counter 20

## Electric Lighting in the Book-Store

It is worth while to record the introduction of Oaran lamps by the Board of Works in some of the darker sections of the Book-Store. The difficulty on dark autumn and winter evenings, when the attendance of readers is greatest, of finding hooks specifly, has been thus much lessened. It is hoped that the extension of the use of these lamps to other parts of the Book-Store may be possible,

T. W. LYSTER

June 30, 1911

ACRECULTURAL EDUCATION AND RESEARCH. Report on the Distribution of Grants, 1910-11. SPAIN. NEW CUSTOMS TARRES, 1912. [Cd. 6040.] Solin Do-operative Societies, Industrial and Agricultural, United Kingdom. Report, with Statistical Tables. [Cd. 6945.] Statistical Tear Rays of Wagers, United Kingdom. 1 January, 1912. [Cd. 6054.] . . . 65. ABBY ENTRANCE REGULATIONS :--

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Monthly MERCHART SHIPPING, MEDICAL SCALES, Scales of Medicine and Medical Stores and Instruments for Metchant Vessels, under Sec. 200 of the Merchant Shipping Act, 1894 SEIPS COMING INTO REGISTRY, &c. List of. Monthly SURVEYORS. INSTRUCTIONS TO. Circulars :-

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